

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

Name of the component	globus-rls		
Release	5.2.2	RT Ticket	4427/4428/4455
Software Provider	IGE		
Release Contact	Name:	E-Mail	
	Mattias Ellert	mattias.ellert@fysast.uu.se	
Validator	Name:	E-Mail	
	Álvaro Simón	asimon@cesga.es	
V. Hours Worked	3		
Component status	Accepted	Date	04/01/13
Verification start date	04/01/13	Verification end date	04/01/13

Summary:

IGE-RLS was installed and configured without problems.

GGUS Tickets:

None

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	15	0/2	0	17
	Specific Quality Criteria			
TP				
VLD	9	0	0	9

Quality Criteria verification cheatsheet:

Criteria	Accepted (Y/N/N)	Tested (TP/VLD)	Comments
DOCUMENTATION QC			
GENERIC_DOC_1 (Functional Description)	Y	VLD	
GENERIC_DOC_2 (Release Notes)	Y	VLD	
GENERIC_DOC_3 (User Documentation)	Optional		
GENERIC_DOC_4 (Online help (man pages))	Optional		
GENERIC_DOC_5 (API Documentation)	Optional		
GENERIC_DOC_6 (Administrator Documentation)	Optional		
GENERIC_DOC_7 (Service Reference Card)	Optional		
GENERIC_DOC_8 (Software License)	Y	VLD	
GENERIC_DOC_9 (Release changes testing)	Optional		
SOFTWARE DISTRIBUTION QC			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
SOFTWARE FEATURES QC			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	VLD	
GENERIC_SOFT_2 (New features testing)	Y	VLD	
SERVICE CRITERIA QC			
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	
GENERIC_SERVICE_2 (Log Files)	Y	VLD	
GENERIC_SERVICE_3 (Service Reliability)	Optional		
GENERIC_SERVICE_4 (Service Robustness)	Optional		
GENERIC_SERVICE_6 (Default Password Configuration)			
GENERIC_SERVICE_7 (Default Configuration)			
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	
AUTHENTICATION QC			
AUTHN_CRED_1 (X.509 Certificate support)	Y	VLD	
AUTHN_CRED_2 (SHA2 Certificate support)	Optional		
AUTHN_CRED_3 (RFC Proxy support)	Optional		
AUTHN_PROTO_1 (TLSSSLv3 Support)			
AUTHORISATION QC			
AUTHZ_PCYDEF_3 (Ban UserGroup of users)			
AUTHZ_PCYDEF_4 (Allowed users definition)			
AUTHZ_PEP_2 (User Mapping)			
MONITORING PROBES QC			
MON_PROBE_GENERIC_1 (Certificate Lifetime Probe)	Optional		
MON_PROBE_GENERIC_2 (Service Probe)	Optional		
CLIENT TOOLS QC			
CLIENT_TOOLS_1 (Command line options coherency)	Optional		
CLIENT_TOOLS_2 (Error Messages)	Optional		

globus-gssapi-error	x86_64	4.1-
2.el5	IGE.globus-rls.sl5.x86_64	14
k		
globus-gssapi-error-devel	x86_64	4.1-
2.el5	IGE.globus-rls.sl5.x86_64	7.1
k		
globus-gssapi-gsi	x86_64	
10.7-1.el5	IGE.globus-rls.sl5.x86_64	
62 k		
globus-gssapi-gsi-devel	x86_64	
10.7-1.el5	IGE.globus-rls.sl5.x86_64	
14 k		
globus-io	x86_64	9.3-
1.el5	IGE.globus-rls.sl5.x86_64	44
k		
globus-io-devel	x86_64	9.3-
1.el5	IGE.globus-rls.sl5.x86_64	12
k		
globus-openssl-module	x86_64	3.2-
1.el5	IGE.globus-rls.sl5.x86_64	14
k		
globus-openssl-module-devel	x86_64	3.2-
1.el5	IGE.globus-rls.sl5.x86_64	7.3
k		
globus-proxy-utils	x86_64	5.0-
2.el5	IGE.globus-rls.sl5.x86_64	45
k		
globus-rls-client	x86_64	5.2-
6.el5	IGE.globus-rls.sl5.x86_64	30
k		
globus-rls-client-devel	x86_64	5.2-
6.el5	IGE.globus-rls.sl5.x86_64	17
k		
globus-rls-client-doc	x86_64	5.2-
6.el5	IGE.globus-rls.sl5.x86_64	218
k		
globus-rls-client-progs	x86_64	5.2-
6.el5	IGE.globus-rls.sl5.x86_64	20
k		
globus-rls-server	x86_64	4.9-
10.1.el5	IGE.globus-rls.sl5.x86_64	97
k		
globus-usage	x86_64	3.1-
2.el5	IGE.globus-rls.sl5.x86_64	17
k		
globus-xio	x86_64	3.3-
1.el5	IGE.globus-rls.sl5.x86_64	178
k		
globus-xio-devel	x86_64	3.3-
1.el5	IGE.globus-rls.sl5.x86_64	49
k		
globus-xio-gsi-driver	x86_64	2.3-
1.el5	IGE.globus-rls.sl5.x86_64	37
k		
globus-xio-gsi-driver-devel	x86_64	2.3-
1.el5	IGE.globus-rls.sl5.x86_64	10
k		
keyutils-libs-devel	x86_64	1.2-
1.el5	sl-base	27
k		
krb5-devel	x86_64	
1.6.1-70.el5	sl-security	
1.9 M		
libselinux-devel	x86_64	
1.33.4-5.7.el5	sl-security	
149 k		
libsepol-devel	x86_64	
1.15.2-3.el5	sl-base	
192 k		
libtool-ltdl	x86_64	
1.5.22-7.el5_4	sl-base	
38 k		
openssl-devel	x86_64	
0.9.8e-22.el5_8.4	sl-security	
1.9 M		
perl-Compress-Zlib	x86_64	
1.42-1.fc6	sl-base	
52 k		
perl-HTML-Parser	x86_64	
3.55-1.fc6	sl-base	
91 k		
perl-HTML-Tagset	noarch	
3.10-2.1.1	sl-base	
14 k		
perl-URI	noarch	
1.35-3	sl-base	
116 k		
perl-XML-Parser	x86_64	
2.34-6.1.2.2.1	sl-base	
209 k		
perl-libwww-perl	noarch	
5.805-1.1.1	sl-base	
375 k		
pkgconfig	x86_64	
1:0.21-2.el5	sl-base	
61 k		
unixODBC	x86_64	
2.2.11-7.1	sl-base	
834 k		

zlib-devel
1.2.3-3
102 k

sl-base x86_64

Transaction Summary

=====
Install 59 Package(s)
Upgrade 0 Package(s)

Total download size: 8.1 M
Is this ok [y/N]:

OS: SL6

yum install ige-meta-globus-rls

Dependencies Resolved

=====
Package
Version
Size
Repository Arch
=====
Installing:
ige-meta-globus-rls noarch 3.0-
1.el6 IGE.globus-rls.sl6.x86_64 2.7
k
Installing for dependencies:
globus-callout x86_64 2.2-
1.el6 IGE.globus-rls.sl6.x86_64 17
k
globus-callout-devel x86_64 2.2-
1.el6 IGE.globus-rls.sl6.x86_64 8.7
k
globus-common x86_64
14.7-1.el6 IGE.globus-rls.sl6.x86_64
115 k
globus-common-devel x86_64
14.7-1.el6 IGE.globus-rls.sl6.x86_64
62 k
globus-common-progs x86_64
14.7-1.el6 IGE.globus-rls.sl6.x86_64
33 k
globus-core x86_64 8.9-
1.el6 IGE.globus-rls.sl6.x86_64 46
k
globus-gsi-callback x86_64 4.3-
1.el6 IGE.globus-rls.sl6.x86_64 37
k
globus-gsi-callback-devel x86_64 4.3-
1.el6 IGE.globus-rls.sl6.x86_64 10
k
globus-gsi-cert-utils x86_64 8.3-
1.el6 IGE.globus-rls.sl6.x86_64 19
k
globus-gsi-cert-utils-devel x86_64 8.3-
1.el6 IGE.globus-rls.sl6.x86_64 10
k
globus-gsi-cert-utils-progs x86_64 8.3-
1.el6 IGE.globus-rls.sl6.x86_64 25
k
globus-gsi-credential x86_64 5.3-
1.el6 IGE.globus-rls.sl6.x86_64 32
k
globus-gsi-credential-devel x86_64 5.3-
1.el6 IGE.globus-rls.sl6.x86_64 10
k
globus-gsi-openssl-error x86_64 2.1-
2.el6 IGE.globus-rls.sl6.x86_64 16
k
globus-gsi-openssl-error-devel x86_64 2.1-
2.el6 IGE.globus-rls.sl6.x86_64 7.8
k
globus-gsi-proxy-core x86_64 6.2-
1.el6 IGE.globus-rls.sl6.x86_64 32
k
globus-gsi-proxy-core-devel x86_64 6.2-
1.el6 IGE.globus-rls.sl6.x86_64 11
k
globus-gsi-proxy-ssl x86_64 4.1-
2.el6 IGE.globus-rls.sl6.x86_64 16
k
globus-gsi-proxy-ssl-devel x86_64 4.1-
2.el6 IGE.globus-rls.sl6.x86_64 9.1
k
globus-gsi-sysconfig x86_64 5.3-
1.el6 IGE.globus-rls.sl6.x86_64 27
k
globus-gsi-sysconfig-devel x86_64 5.3-
1.el6 IGE.globus-rls.sl6.x86_64 12
k

globus-gss-assist	x86_64	8.6-
1.el6	IGE.globus-rls.sl6.x86_64	32
k		
globus-gss-assist-devel	x86_64	8.6-
1.el6	IGE.globus-rls.sl6.x86_64	11
k		
globus-gssapi-error	x86_64	4.1-
2.el6	IGE.globus-rls.sl6.x86_64	13
k		
globus-gssapi-error-devel	x86_64	4.1-
2.el6	IGE.globus-rls.sl6.x86_64	7.7
k		
globus-gssapi-gsi	x86_64	
10.7-1.el6	IGE.globus-rls.sl6.x86_64	
55 k		
globus-gssapi-gsi-devel	x86_64	
10.7-1.el6	IGE.globus-rls.sl6.x86_64	
14 k		
globus-io	x86_64	9.3-
1.el6	IGE.globus-rls.sl6.x86_64	39
k		
globus-io-devel	x86_64	9.3-
1.el6	IGE.globus-rls.sl6.x86_64	12
k		
globus-openssl-module	x86_64	3.2-
1.el6	IGE.globus-rls.sl6.x86_64	13
k		
globus-openssl-module-devel	x86_64	3.2-
1.el6	IGE.globus-rls.sl6.x86_64	8.0
k		
globus-proxy-utils	x86_64	5.0-
2.el6	IGE.globus-rls.sl6.x86_64	42
k		
globus-rls-client	x86_64	5.2-
6.el6	IGE.globus-rls.sl6.x86_64	28
k		
globus-rls-client-devel	x86_64	5.2-
6.el6	IGE.globus-rls.sl6.x86_64	17
k		
globus-rls-client-doc	noarch	5.2-
6.el6	IGE.globus-rls.sl6.x86_64	230
k		
globus-rls-client-progs	x86_64	5.2-
6.el6	IGE.globus-rls.sl6.x86_64	18
k		
globus-rls-server	x86_64	4.9-
10.1.el6	IGE.globus-rls.sl6.x86_64	89
k		
globus-usage	x86_64	3.1-
2.el6	IGE.globus-rls.sl6.x86_64	16
k		
globus-xio	x86_64	3.3-
1.el6	IGE.globus-rls.sl6.x86_64	159
k		
globus-xio-devel	x86_64	3.3-
1.el6	IGE.globus-rls.sl6.x86_64	46
k		
globus-xio-gsi-driver	x86_64	2.3-
1.el6	IGE.globus-rls.sl6.x86_64	34
k		
globus-xio-gsi-driver-devel	x86_64	2.3-
1.el6	IGE.globus-rls.sl6.x86_64	11
k		
keyutils-libs-devel	x86_64	1.4-
4.el6	sl	28
k		
krb5-devel	x86_64	1.9-
33.el6_3.2	sl-security	1.2
M		
libcom_err-devel	x86_64	
1.41.12-12.el6	sl	
30 k		
libselinux-devel	x86_64	
2.0.94-5.3.el6	sl	
135 k		
libsepol-devel	x86_64	
2.0.41-4.el6	sl	
63 k		
libtool-ltdl	x86_64	
2.2.6-15.5.el6	sl	
43 k		
mailcap	noarch	
2.1.31-2.el6	sl	
26 k		
openssl-devel	x86_64	
1.0.0-20.el6_2.5	sl	
1.1 M		
perl	x86_64	
4:5.10.1-127.el6	sl	
10 M		
perl-Compress-Raw-Zlib	x86_64	
1:2.020-127.el6	sl	
67 k		
perl-Compress-Zlib	x86_64	
2.020-127.el6	sl	
42 k		
perl-HTML-Parser	x86_64	
3.64-2.el6	sl	
108 k		

```

perl-HTML-Tagset
3.20-4.el6
15 k
perl-I0-Compress-Base
2.020-127.el6
66 k
perl-I0-Compress-Zlib
2.020-127.el6
133 k
perl-Module-Pluggable
1:3.90-127.el6
37 k
perl-Pod-Escapes
1:1.04-127.el6
30 k
perl-Pod-Simple
1:3.13-127.el6
209 k
perl-URI
1.40-2.el6
116 k
perl-XML-Parser
2.36-7.el6
223 k
perl-libs
4:5.10.1-127.el6
575 k
perl-libwww-perl
5.833-2.el6
386 k
perl-version
3:0.77-127.el6
48 k
pkgconfig
1:0.23-9.1.el6
69 k
unixODBC
2.2.14-11.el6
378 k
zlib-devel
1.2.3-27.el6
43 k

```

Transaction Summary

```

=====

```

```

Install      69 Package(s)

```

```

Total download size: 17 M

```

```

Installed size: 49 M

```

```

Is this ok [y/N]:

```

OS: debian6

```

# apt-get install ige-meta-globus-rls
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  globus-common-progs globus-core globus-gsi-cert-utils-progs globus-proxy-utils globus-rls-client-progs globus-rls-
server libfont-afm-perl
  libglobus-callout-dev libglobus-callout-doc libglobus-callout0 libglobus-common-dev libglobus-common-doc libglobus-
common0 libglobus-gsi-callback-dev
  libglobus-gsi-callback-doc libglobus-gsi-callback0 libglobus-gsi-cert-utils-dev libglobus-gsi-cert-utils-doc
libglobus-gsi-cert-utils0
  libglobus-gsi-credential-dev libglobus-gsi-credential-doc libglobus-gsi-credential1 libglobus-gsi-openssl-error-dev
libglobus-gsi-openssl-error-doc
  libglobus-gsi-openssl-error0 libglobus-gsi-proxy-core-dev libglobus-gsi-proxy-core-doc libglobus-gsi-proxy-core0
libglobus-gsi-proxy-ssl-dev
  libglobus-gsi-proxy-ssl-doc libglobus-gsi-proxy-ssl1 libglobus-gsi-sysconfig-dev libglobus-gsi-sysconfig-doc
libglobus-gsi-sysconfig1
  libglobus-gss-assist-dev libglobus-gss-assist-doc libglobus-gss-assist3 libglobus-gssapi-error-dev libglobus-
gssapi-error-doc libglobus-gssapi-error2
  libglobus-gssapi-gsi-dev libglobus-gssapi-gsi-doc libglobus-gssapi-gsi4 libglobus-io-dev libglobus-io3 libglobus-
openssl-module-dev
  libglobus-openssl-module-doc libglobus-openssl-module0 libglobus-rls-client-dev libglobus-rls-client-doc libglobus-
rls-client5 libglobus-usage0
  libglobus-xio-dev libglobus-xio-doc libglobus-xio-gsi-driver-dev libglobus-xio-gsi-driver-doc libglobus-xio-gsi-
driver0 libglobus-xio0 libhtml-format-perl
  libhtml-parser-perl libhtml-tagset-perl libhtml-tree-perl libltdl7 libmailtools-perl libssl-dev libtimedate-perl
liburi-perl libwww-perl
  libxml-parser-perl odbcinst odbcinst1debian2 unixodbc zlib1g-dev
Suggested packages:
  libdata-dump-perl libcrypt-ssleay-perl libio-socket-ssl-perl libmyodbc odbc-postgresql tdsodbc unixodbc-bin
The following NEW packages will be installed:
  globus-common-progs globus-core globus-gsi-cert-utils-progs globus-proxy-utils globus-rls-client-progs globus-rls-
server ige-meta-globus-rls
  libfont-afm-perl libglobus-callout-dev libglobus-callout-doc libglobus-callout0 libglobus-common-dev libglobus-
common-doc libglobus-common0
  libglobus-gsi-callback-dev libglobus-gsi-callback-doc libglobus-gsi-callback0 libglobus-gsi-cert-utils-dev
libglobus-gsi-cert-utils-doc
  libglobus-gsi-cert-utils0 libglobus-gsi-credential-dev libglobus-gsi-credential-doc libglobus-gsi-credential1
libglobus-gsi-openssl-error-dev
  libglobus-gsi-openssl-error-doc libglobus-gsi-openssl-error0 libglobus-gsi-proxy-core-dev libglobus-gsi-proxy-core-
doc libglobus-gsi-proxy-core0
  libglobus-gsi-proxy-ssl-dev libglobus-gsi-proxy-ssl-doc libglobus-gsi-proxy-ssl1 libglobus-gsi-sysconfig-dev
libglobus-gsi-sysconfig-doc

```

```

libglobus-gsi-sysconfig1 libglobus-gss-assist-dev libglobus-gss-assist-doc libglobus-gss-assist3 libglobus-gssapi-
error-dev libglobus-gssapi-error-doc
libglobus-gssapi-error2 libglobus-gssapi-gsi-dev libglobus-gssapi-gsi-doc libglobus-gssapi-gsi4 libglobus-io-dev
libglobus-io3
libglobus-openssl-module-dev libglobus-openssl-module-doc libglobus-openssl-module0 libglobus-rls-client-dev
libglobus-rls-client-doc
libglobus-rls-client5 libglobus-usage0 libglobus-xio-dev libglobus-xio-doc libglobus-xio-gsi-driver-dev libglobus-
xio-gsi-driver-doc
libglobus-xio-gsi-driver0 libglobus-xio0 libhtml-format-perl libhtml-parser-perl libhtml-tagset-perl libhtml-tree-
perl libltdl7 libmailtools-perl
libssl-dev libtimedate-perl liburi-perl libwww-perl libxml-parser-perl odbcinst odbcinstdebian2 unixodbc zlibg-
dev
0 upgraded, 74 newly installed, 0 to remove and 46 not upgraded.
Need to get 9,514 kB of archives.
After this operation, 31.4 MB of additional disk space will be used.
Do you want to continue [Y/n]?

```

Configuration

```
# cat /etc/globus-rls-server.conf
```

```

db_user          rlsdbuser
db_pwd          xxxxxxxxxxxx
odbcini         /etc/globus-rls-server-odbc.ini
pidfile        /var/run/globus-rls-server.pid

update_immediate true          # Propagate changes to RLI quickly

# LRC options
lrc_server      true          # Indicates this is a LRC server
lrc_dbname      lrc1000      # DSN for LRC database

# RLI options
rli_server      false

# Access control. There may be multiple acl options, each one
# is a regular expression which is matched against the user's Distinguished
# Name in its X.509 certificate, followed by a colon and a whitespace
# separated list of privs, which are all, lrc_read, lrc_update, rli_read,
# rli_update, stats and admin. If you use a grid-mapfile to map DNS to
# local usernames you may specify those instead of DNS.
acl             .*: all

authentication  true
myurl           rls://test05.egi.cesga.es:39281
port           39281
rlscertfile    /etc/grid-security/hostcert.pem
rlskeyfile     /etc/grid-security/hostkey.pem

# cp /etc/grid-security/hostcert.pem /etc/grid-security/containercert.pem
# cp /etc/grid-security/hostkey.pem /etc/grid-security/containerkey.pem

# yum install mysql mysql-server mysql-connector-odbc

# /etc/init.d/mysqld start

[root@test05 etc]# mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 5.0.95 Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>grant all on lrc1000.* to rlsdbuser@localhost identified by 'xxxxxxxxxxx';
mysql>grant all on rli1000.* to rlsdbuser@localhost identified by 'xxxxxxxxxxx';

# mysql -p'xxxxxxxxx' -u rlsdbuser < /usr/share/globus/setup/globus-rls-lrc-mysql.sql

```

Testing

```

# /usr/sbin/globus-rls-admin -a rls://lfc.egee.cesga.es rls://test05.egi.cesga.es

# /usr/sbin/globus-rls-admin -p rls://test05.egi.cesga.es

```


ping rls://test05.egi.cesga.es: 0 seconds

globus-rls-cli create id_test1 ui.egee.cesga.es:/tmp/test rls://test05.egi.cesga.es

globus-rls-cli add id_test1 ui.egee.cesga.es:/tmp/test2 rls://test05.egi.cesga.es

globus-rls-cli query lrc lfn id_test1 rls://test05.egi.cesga.es

id_test1 ui.egee.cesga.es:/tmp/test

id_test1 ui.egee.cesga.es:/tmp/test2

globus-rls-cli delete id_test1 ui.egee.cesga.es:/tmp/test2 rls://test05.egi.cesga.es

globus-rls-cli query lrc lfn id_test1 rls://test05.egi.cesga.es

id_test1 ui.egee.cesga.es:/tmp/test

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: