

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

Name of the component	Globus-gsissh		
Release	4.3.4	RT Ticket	3380
Software Provider	IGE		
	Mattias Ellert	mattias.ellert@fysast.uu.se	
Validator	Name:	E-Mail	
	Enol Fernández	enolfc@ifca.unican.es	
V. Hours Worked	0:30		
Component status	Accepted	Date	09/03/2012
Verification start date	09/03/2012	Verification end date	09/03/2012

Summary:

This is a recompilation of packages, no new features or bug fixes. The testing consisted in the installation and basic tests. No issues found.

GGUS Tickets:

None

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	15		3	18
	Specific Quality Criteria			
TP				
VLD	6		2	8

RELEASE:	ige.globus-gsissh.s	VALIDATOR:	Enol Fernandez
RT TICKET:	3380		
Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments
Generic QC			
GENERIC_DOC_1 (Functional Description)	Y	VLD	Available at http://globus.org.eu/toolkit/docs/5.2/5.2.0/gsiopens
GENERIC_DOC_2 (Release Notes)	Y	VLD	Release notes at http://globus.org.eu/toolkit/docs/5.2/5.2.0/gsiopens
GENERIC_DOC_3 (User Documentation)	Y	VLD	Available at: http://globus.org.eu/toolkit/docs/5.0/5.0
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	Commands have man and -h options.
GENERIC_DOC_6 (Administrator Document)	Y	VLD	Available at http://globus.org.eu/toolkit/docs/5.2/5.2.0/gsiopens
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	Data needed for the reference card is available but not in a single document!
GENERIC_DOC_8 (Software License)	Y	VLD	Apache License, NOT EASY TO FIND IN DOCS
GENERIC_DOC_9 (Release changes testing)	Y	VLD	Document available, but no tests!
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	Available at the repo
GENERIC_DIST_2 (Source Distribution)	Y	VLD	Source rpms available, source also available
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	Binary packages installed without any issues
GENERIC_SERVICE_1 (Service control and monitoring)	Y	VLD	Service control scripts working fine
GENERIC_SERVICE_2 (Log Files)	Y	VLD	Logs go to standard place (/var/log/secure)
GENERIC_SERVICE_3 (Service Reliability)	NA	VLD	
GENERIC_SERVICE_4 (Service Robustness)	NA	VLD	
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_2 (Directory Traversal Attacks)	NA	VLD	No known directory traversal vulnerability
GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	IGE enroled as 3 rd support in GGUS
Security Capabilities QC			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	Tested both wth voms and without voms proxies
AUTHN_IFACE_2 (SAML authentication)	NA	VLD	Only X509 support
AUTHZ_PCYDEF_3 (Ban UserFQAN)	Y	VLD	Policies define accepted users only
AUTHZ_PCYDEF_4 (Allowed users definition)	Y	VLD	Tested with a user DN
AUTHZ_PEP_1 (Policy Enforcement)	Y	VLD	Tested with a user DN
AUTHZ_PEP_2 (User Mapping)	Y	VLD	Tested with a user DN
Compute Capabilities QC			
INTERACTIVE_JOB_1 (Interactive login)	Y	VLD	See tests in verification summary
Operations Capabilities QC			
MON_PROBE_GENERIC_2 (Service Probe)	NA	VLD	No monitoring probe available.

Validator comments:

Installation:

1. Installation

```
Loaded plugins: kernel-module, priorities, protectbase
Repository EGI-trustanchors is listed more than once in the configuration
541 packages excluded due to repository priority protections
0 packages excluded due to repository protections
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package ige-meta-globus-gsissh.noarch 0:2.0-2.el5 set to be updated
--> Processing Dependency: gsi-openssh-server for package: ige-meta-globus-gsissh
--> Processing Dependency: gsi-openssh-clients for package: ige-meta-globus-gsissh
--> Processing Dependency: globus-proxy-utils for package: ige-meta-globus-gsissh
--> Processing Dependency: gsi-openssh for package: ige-meta-globus-gsissh
--> Processing Dependency: globus-gsi-cert-utils-progs for package: ige-meta-globus-gsissh
--> Running transaction check
---> Package globus-gsi-cert-utils-progs.x86_64 0:8.1-2.el5 set to be updated
--> Processing Dependency: globus-gsi-cert-utils = 8.1-2.el5 for package: globus-gsi-cert-utils-progs
--> Processing Dependency: globus-common-progs >= 14 for package: globus-gsi-cert-utils-progs
---> Package globus-proxy-utils.x86_64 0:5.0-2.el5 set to be updated
--> Processing Dependency: globus-openssl-module >= 3 for package: globus-proxy-utils
--> Processing Dependency: globus-gsi-proxy-core >= 6 for package: globus-proxy-utils
--> Processing Dependency: globus-gss-assist >= 8 for package: globus-proxy-utils
--> Processing Dependency: globus-gsi-credential >= 5 for package: globus-proxy-utils
--> Processing Dependency: globus-gsi-openssl-error >= 2 for package: globus-proxy-utils
--> Processing Dependency: globus-gsi-sysconfig >= 5 for package: globus-proxy-utils
--> Processing Dependency: globus-gsi-callback >= 4 for package: globus-proxy-utils
--> Processing Dependency: globus-common >= 14 for package: globus-proxy-utils
--> Processing Dependency: libglobus_common.so.0(GLOBUS_COMMON_14)(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_gsi_credential.so.1()(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_gsi_sysconfig.so.1()(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_openssl.so.0()(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_gsi_callback.so.0()(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_gsi_proxy_core.so.0()(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_openssl_error.so.0()(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_common.so.0()(64bit) for package: globus-proxy-utils
--> Processing Dependency: libglobus_gss_assist.so.3()(64bit) for package: globus-proxy-utils
---> Package gsi-openssh.x86_64 0:4.3p2-4.el5 set to be updated
--> Processing Dependency: libglobus_gssapi_gsi.so.4()(64bit) for package: gsi-openssh
---> Package gsi-openssh-clients.x86_64 0:4.3p2-4.el5 set to be updated
```

```

--> Package gsi-openssh-server.x86_64 0:4.3p2-4.el5 set to be updated
EGI-trustanchors/filelists
| 15 kB 00:00
IGE.globus-gsissh.sl5.x86_64/filelists_db
| 6.2 kB 00:00
UMD-1-base/filelists_db
| 90 kB 00:00
UMD-1-updates/filelists_db
| 142 kB 00:00
epel/filelists_db
| 5.4 MB 00:08
sl-base/filelists_db
| 3.6 MB 00:02
sl-security/filelists_db
| 6.9 MB 00:01
--> Running transaction check
--> Package globus-common.x86_64 0:14.5-4.el5 set to be updated
--> Processing Dependency: libltdl.so.3()(64bit) for package: globus-common
--> Package globus-common-progs.x86_64 0:14.5-4.el5 set to be updated
--> Package globus-gsi-callback.x86_64 0:4.1-2.el5 set to be updated
--> Processing Dependency: globus-gsi-proxy-ssl >= 4 for package: globus-gsi-callback
--> Processing Dependency: libglobus_proxy_ssl.so.1()(64bit) for package: globus-gsi-callback
--> Package globus-gsi-cert-utils.x86_64 0:8.1-2.el5 set to be updated
--> Package globus-gsi-credential.x86_64 0:5.1-2.el5 set to be updated
--> Package globus-gsi-openssl-error.x86_64 0:2.1-2.el5 set to be updated
--> Package globus-gsi-proxy-core.x86_64 0:6.1-2.el5 set to be updated
--> Package globus-gsi-sysconfig.x86_64 0:5.1-2.el5 set to be updated
--> Package globus-gss-assist.x86_64 0:8.1-2.el5 set to be updated
--> Processing Dependency: globus-callout >= 2 for package: globus-gss-assist
--> Processing Dependency: libglobus_callout.so.0()(64bit) for package: globus-gss-assist
--> Package globus-gssapi-gsi.x86_64 0:10.2-2.el5 set to be updated
--> Package globus-openssl-module.x86_64 0:3.1-2.el5 set to be updated
--> Running transaction check
--> Package globus-callout.x86_64 0:2.1-2.el5 set to be updated
--> Package globus-gsi-proxy-ssl.x86_64 0:4.1-2.el5 set to be updated
--> Package libtool-ltdl.x86_64 0:1.5.22-7.el5_4 set to be updated
--> Finished Dependency Resolution
Beginning Kernel Module Plugin
Finished Kernel Module Plugin

```

Dependencies Resolved

```

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```

Package Repository	Arch Size	Version
=====		
Installing:		
ige-meta-globus-gsissh	noarch	2.0-2.el5
IGE.globus-gsissh.sl5.x86_64	2.3 k	
Installing for dependencies:		
globus-callout	x86_64	2.1-2.el5
IGE.globus-gsissh.sl5.x86_64	17 k	
globus-common	x86_64	14.5-4.el5
IGE.globus-gsissh.sl5.x86_64	131 k	
globus-common-progs	x86_64	14.5-4.el5
IGE.globus-gsissh.sl5.x86_64	34 k	
globus-gsi-callback	x86_64	4.1-2.el5
IGE.globus-gsissh.sl5.x86_64	42 k	
globus-gsi-cert-utils	x86_64	8.1-2.el5
IGE.globus-gsissh.sl5.x86_64	20 k	

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globus-gsi-cert-utils-progs	x86_64	8.1-2.el5
IGE.globus-gsissh.s15.x86_64	26 k	
globus-gsi-credential	x86_64	5.1-2.el5
IGE.globus-gsissh.s15.x86_64	35 k	
globus-gsi-openssl-error	x86_64	2.1-2.el5
IGE.globus-gsissh.s15.x86_64	16 k	
globus-gsi-proxy-core	x86_64	6.1-2.el5
IGE.globus-gsissh.s15.x86_64	37 k	
globus-gsi-proxy-ssl	x86_64	4.1-2.el5
IGE.globus-gsissh.s15.x86_64	18 k	
globus-gsi-sysconfig	x86_64	5.1-2.el5
IGE.globus-gsissh.s15.x86_64	30 k	
globus-gss-assist	x86_64	8.1-2.el5
IGE.globus-gsissh.s15.x86_64	34 k	
globus-gssapi-gsi	x86_64	10.2-2.el5
IGE.globus-gsissh.s15.x86_64	57 k	
globus-openssl-module	x86_64	3.1-2.el5
IGE.globus-gsissh.s15.x86_64	13 k	
globus-proxy-utils	x86_64	5.0-2.el5
IGE.globus-gsissh.s15.x86_64	45 k	
gsi-openssh	x86_64	4.3p2-4.el5
IGE.globus-gsissh.s15.x86_64	258 k	
gsi-openssh-clients	x86_64	4.3p2-4.el5
IGE.globus-gsissh.s15.x86_64	244 k	
gsi-openssh-server	x86_64	4.3p2-4.el5
IGE.globus-gsissh.s15.x86_64	249 k	
libtool-ltdl	x86_64	1.5.22-7.el5_4
sl-base	38 k	

Transaction Summary

=====

Install 20 Package(s)
Upgrade 0 Package(s)

Total download size: 1.3 M

Is this ok [y/N]: y

Downloading Packages:

- (1/20): ige-meta-globus-gsissh-2.0-2.el5.noarch.rpm
| 2.3 kB 00:00
- (2/20): globus-openssl-module-3.1-2.el5.x86_64.rpm
| 13 kB 00:00
- (3/20): globus-gsi-openssl-error-2.1-2.el5.x86_64.rpm
| 16 kB 00:00
- (4/20): globus-callout-2.1-2.el5.x86_64.rpm
| 17 kB 00:00
- (5/20): globus-gsi-proxy-ssl-4.1-2.el5.x86_64.rpm
| 18 kB 00:00
- (6/20): globus-gsi-cert-utils-8.1-2.el5.x86_64.rpm
| 20 kB 00:00
- (7/20): globus-gsi-cert-utils-progs-8.1-2.el5.x86_64.rpm
| 26 kB 00:00
- (8/20): globus-gsi-sysconfig-5.1-2.el5.x86_64.rpm
| 30 kB 00:00
- (9/20): globus-common-progs-14.5-4.el5.x86_64.rpm
| 34 kB 00:00
- (10/20): globus-gss-assist-8.1-2.el5.x86_64.rpm
| 34 kB 00:00
- (11/20): globus-gsi-credential-5.1-2.el5.x86_64.rpm
| 35 kB 00:00
- (12/20): globus-gsi-proxy-core-6.1-2.el5.x86_64.rpm
| 37 kB 00:00
- (13/20): libtool-ltdl-1.5.22-7.el5_4.x86_64.rpm
| 38 kB 00:00
- (14/20): globus-gsi-callback-4.1-2.el5.x86_64.rpm
| 42 kB 00:00

```
(15/20): globus-proxy-utils-5.0-2.el5.x86_64.rpm
| 45 kB 00:00
(16/20): globus-gssapi-gsi-10.2-2.el5.x86_64.rpm
| 57 kB 00:00
(17/20): globus-common-14.5-4.el5.x86_64.rpm
| 131 kB 00:00
(18/20): gsi-openssh-clients-4.3p2-4.el5.x86_64.rpm
| 244 kB 00:00
(19/20): gsi-openssh-server-4.3p2-4.el5.x86_64.rpm
| 249 kB 00:00
(20/20): gsi-openssh-4.3p2-4.el5.x86_64.rpm
| 258 kB 00:00
-----
-----
Total
160 kB/s | 1.3 MB 00:08
warning: rpmts_HdrFromFdno: Header V4 DSA signature: NOKEY, key ID b4d025b3
IGE.globus-gsissh.s15.x86_64/gpgkey
| 915 B 00:00
Importing GPG key 0xB4D025B3 "Initiative for Globus in Europe - short (IGE)
<info@ige-project.eu>" from http://repo-rpm.ige-project.eu/RPM-GPG-KEY-IGE
Is this ok [y/N]: y
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing      : libtool-ltdl
1/20
  Installing      : globus-common
2/20
  Installing      : globus-gsi-openssl-error
3/20
  Installing      : globus-gsi-sysconfig
4/20
  Installing      : globus-gsi-proxy-ssl
5/20
  Installing      : globus-openssl-module
6/20
  Installing      : globus-gsi-cert-utils
7/20
  Installing      : globus-gsi-callback
8/20
  Installing      : globus-gsi-credential
9/20
  Installing      : globus-gsi-proxy-core
10/20
  Installing      : globus-gssapi-gsi
11/20
  Installing      : globus-common-progs
12/20
  Installing      : globus-callout
13/20
  Installing      : globus-gss-assist
14/20
  Installing      : gsi-openssh
15/20
  Installing      : gsi-openssh-server
16/20
  Installing      : gsi-openssh-clients
17/20
  Installing      : globus-proxy-utils
18/20
  Installing      : globus-gsi-cert-utils-progs
19/20
```

```

Installing      : ige-meta-globus-gsissh
20/20

Installed:
  ige-meta-globus-gsissh.noarch 0:2.0-2.el5

Dependency Installed:
  globus-callout.x86_64 0:2.1-2.el5                globus-common.x86_64
0:14.5-4.el5
  globus-common-progs.x86_64 0:14.5-4.el5          globus-gsi-
callback.x86_64 0:4.1-2.el5
  globus-gsi-cert-utils.x86_64 0:8.1-2.el5         globus-gsi-cert-
utils-progs.x86_64 0:8.1-2.el5
  globus-gsi-credential.x86_64 0:5.1-2.el5         globus-gsi-openssl-
error.x86_64 0:2.1-2.el5
  globus-gsi-proxy-core.x86_64 0:6.1-2.el5         globus-gsi-proxy-
ssl.x86_64 0:4.1-2.el5
  globus-gsi-sysconfig.x86_64 0:5.1-2.el5          globus-gss-
assist.x86_64 0:8.1-2.el5
  globus-gssapi-gsi.x86_64 0:10.2-2.el5            globus-openssl-
module.x86_64 0:3.1-2.el5
  globus-proxy-utils.x86_64 0:5.0-2.el5            gsi-openssh.x86_64
0:4.3p2-4.el5
  gsi-openssh-clients.x86_64 0:4.3p2-4.el5         gsi-openssh-
server.x86_64 0:4.3p2-4.el5
  libtool-ltdl.x86_64 0:1.5.22-7.el5_4

Complete!

```

Configuration:

1. Removed password authentication from /etc/gsissh/sshd_config
2. Changed port to 2000 in /etc/gsissh/sshd_config (ssh running in port 22 in the same machine)

Service Checks:

```

# service gsisshd status
gsissh-daemon is stopped
# service gsisshd start
Starting gsisshd: [ OK ]
# service gsisshd status
gsissh-daemon (pid 30460) is running...
# ps -www 30460
  PID TTY          STAT       TIME COMMAND
 30460 ?           SNs        0:00 /usr/sbin/gsisshd
# service gsisshd stop
Stopping gsisshd: [ OK ]
# service gsisshd status
gsissh-daemon is stopped
# ps -www 30460
  PID TTY          STAT       TIME COMMAND

```

Tests:

1. Created test accounts: enol & test
2. Created grid-mapfile mapping "/DC=es/DC=irisgrid/O=ifca/CN=Enol-Fernandez-delCastillo" to test
3. Copied valid proxy to enol account
4. Execute a command with gsissh:

```

$ id && gsissh -p 2000 test17.egi.cesga.es id
uid=500(enol) gid=500(enol) groups=500(enol)
uid=501(test) gid=501(test) groups=501(test)

```

5. Remote shell with gsissh:

```

$ gsissh -p 2000 test17.egi.cesga.es

```

```
Last login: Fri Mar 9 17:38:01 2012 from test17.egi.cesga.es
[test@test17 ~]$ pwd
/home/test
[test@test17 ~]$ ls
[test@test17 ~]$ whoami
test
[test@test17 ~]$ exit
logout
Connection to test17.egi.cesga.es closed.
```

6. gsiscp

```
$ echo "Hello world" > myfile
$ gsiscp -P 2000 myfile test17.egi.cesga.es:remotefile
myfile
100% 12 0.0KB/s 00:00
$ gsissh -p 2000 test17.egi.cesga.es cat remotefile
Hello world
```

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):

Comments for SR (TSA1.3):

Comments for DMSU (TSA2.5):

Comments for TP: