

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

Name of the component	Globus-gsissh		
Release	4.3.5	RT Ticket	3670
Software Provider	IGE		
	Mattias Ellert	mattias.ellert@fysast.uu.se	
Validator	Name:	E-Mail	
	Enol Fernández	enolfc@gmail.com	
V. Hours Worked	0:20		
Component status	Accepted	Date	03/05/2012
Verification start date	03/05/2012	Verification end date	03/05/2012

Summary:

Globus gsissh includes both server and client packages for ssh using gsi security. This release backports changes from upstream openssh. Minor update verification, both client and server installed on the same host and work without any issues.

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

Validator comments:

Installation:

1. Get repo file

```
[root@test19 ~]# wget http://admin-repo.egi.eu/sw/unverified/ige.globus-gsissh.sl5.x86_64/4/3/5/repofiles/IGE.globus-gsissh.sl5.x86_64.repo -O /etc/yum.repos.d/IGE.globus-gsissh.sl5.x86_64.repo
--2012-05-03 15:12:26-- http://admin-repo.egi.eu/sw/unverified/ige.globus-gsissh.sl5.x86_64/4/3/5/repofiles/IGE.globus-gsissh.sl5.x86_64.repo
Resolving admin-repo.egi.eu... 195.251.54.94
Connecting to admin-repo.egi.eu|195.251.54.94|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 338 [text/plain]
Saving to: `'/etc/yum.repos.d/IGE.globus-gsissh.sl5.x86_64.repo'

100%[=====>] 338          --.-K/s   in 0s

2012-05-03 15:12:27 (46.0 MB/s) - `'/etc/yum.repos.d/IGE.globus-gsissh.sl5.x86_64.repo' saved [338/338]
```

2. Installation

```
# [root@test19 ~]# yum install ige-meta-globus-gsissh
Loaded plugins: kernel-module, priorities, protectbase
Repository EGI-trustanchors is listed more than once in the configuration
615 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 0:2.1-1.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 0:4.3p2-5.el5 set to be updated
--> Processing Dependency: libglobus_gssapi_gsi.so.4()(64bit) for package:
gsi-openssh
--> Package gsi-openssh-clients.x86_64 0:4.3p2-5.el5 set to be updated
--> Package gsi-openssh-server.x86_64 0:4.3p2-5.el5 set to be updated
--> 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 IGE.globus-gsissh.s15.x86_64	noarch 2.4 k	2.1-1.el5
Installing for dependencies:		
globus-callout IGE.globus-gsissh.s15.x86_64	x86_64 17 k	2.1-2.el5
globus-common IGE.globus-gsissh.s15.x86_64	x86_64 131 k	14.5-4.el5
globus-common-progs IGE.globus-gsissh.s15.x86_64	x86_64 34 k	14.5-4.el5
globus-gsi-callback IGE.globus-gsissh.s15.x86_64	x86_64 42 k	4.1-2.el5

globus-gsi-cert-utils	x86_64	8.1-2.el5
IGE.globus-gsissh.s15.x86_64	20 k	
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	4.3p2-5.el5
IGE.globus-gsissh.s15.x86_64	258 k	
gsi-openssh-clients	x86_64	4.3p2-5.el5
IGE.globus-gsissh.s15.x86_64	245 k	
gsi-openssh-server	x86_64	4.3p2-5.el5
IGE.globus-gsissh.s15.x86_64	250 k	
libtool-ltdl	x86_64	1.5.22-7.el5_4
sl-base	38 k	

Transaction Summary

```
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```

```
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-2.1-1.el5.noarch.rpm
| 2.4 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-4.3p2-5.el5.x86_64.rpm
| 245 kB     00:00
(19/20): gsi-openssh-server-4.3p2-5.el5.x86_64.rpm
| 250 kB     00:00
(20/20): gsi-openssh-4.3p2-5.el5.x86_64.rpm
| 258 kB     00:00
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Total
168 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-clients
16/20
  Installing      : gsi-openssh-server
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 0:2.1-1.e15
```

Dependency Installed:

```
globus-callout.x86_64 0:2.1-2.e15          globus-common.x86_64 0:14.5-4.e15
globus-common-progs.x86_64 0:14.5-4.e15
globus-gsi-callback.x86_64 0:4.1-2.e15     globus-gsi-cert-utils.x86_64 0:8.1-2.e15
globus-gsi-cert-utils-progs.x86_64 0:8.1-2.e15
globus-gsi-credential.x86_64 0:5.1-2.e15   globus-gsi-openssl-error.x86_64 0:2.1-2.e15
globus-gsi-proxy-core.x86_64 0:6.1-2.e15
globus-gsi-proxy-ssl.x86_64 0:4.1-2.e15   globus-gsi-sysconfig.x86_64 0:5.1-2.e15
globus-gss-assist.x86_64 0:8.1-2.e15
globus-gssapi-gsi.x86_64 0:10.2-2.e15      globus-openssl-module.x86_64 0:3.1-2.e15
globus-proxy-utils.x86_64 0:5.0-2.e15
gsi-openssh.x86_64 0:4.3p2-5.e15          gsi-openssh-clients.x86_64 0:4.3p2-5.e15
gsi-openssh-server.x86_64 0:4.3p2-5.e15
libtool-ltdl.x86_64 0:1.5.22-7.e15_4
```

Complete!

Configuration:

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

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=501(enol) gid=501(enol) groups=501(enol)
context=root:system_r:unconfined_t:SystemLow-SystemHigh
uid=502(test) gid=502(test) groups=502(test)
context=user_u:system_r:unconfined_t
```

5. Remote shell with gsissh:

```
[enol@test19 ~]$ gsissh -p 2000 test19.egi.cesga.es
Last login: Thu May 3 15:15:39 2012 from test19.egi.cesga.es
[test@test19 ~]$ pwd
/home/test
[test@test19 ~]$ whoami
test
[test@test19 ~]$ w
 15:16:19 up 3 days,  1:52,  3 users,  load average: 0.00, 0.00, 0.00
USER      TTY      FROM          LOGIN@      IDLE        JCPU   PCPU   WHAT
root      pts/0    gridinfo.ifca.un 14:53      3:53      0.04s  0.04s  -bash
root      pts/1    gridinfo.ifca.un 14:58      0.00s    0.01s  0.00s  gsissh -p 2000
test      pts/2    test19.egi.cesga 15:16      0.00s    0.00s  0.00s  w
[test@test19 ~]$ exit
logout
Connection to test19.egi.cesga.es closed.
```

6. gsiscp

```
[enol@test19 ~]$ echo "Hey there, world" > myfile
[enol@test19 ~]$ gsiscp -P 2000 myfile test19.egi.cesga.es:remote
myfile                               100% 17      0.0KB/s   00:00
[enol@test19 ~]$ gsissh -p 2000 test19.egi.cesga.es cat remote
Hey there, 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: