

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

Name of the component	IGE.globus-myproxy.sl5.x86_64-5.6.3		
Release		RT Ticket	https://rt.egi.eu/rt/Ticket/Display.htm?id=4077
Software Provider	Initiative for Globus in Europe		
Release Contact	Name: Mattias Ellert	E-Mail: mattias.ellert@fysast.uu.se	
Validator	Name: Esteban Freire García	E-Mail: esfreire@cesga.es	
V. Hours Worked	6		
Component status	Accepted	Date: 18/07/2012	
Verification start date	18/07/2012	Verification end date	19/07/12

Summary:

IGE.globus-myproxy was installed from UMD repository without any relevant issue.

GGUS Tickets:

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	12			12
	Specific Quality Criteria			
TP				
VLD	6			6

Quality Criteria verification cheatsheet:

Criteria	Accept	Test	Comments
Generic QC			
GENERIC_DOC_1 (Functional Description)	Y	VLD	http://globus.org.eu/toolkit/docs/5.2/5.2.1/myproxy/admin/#myproxyAdmin
GENERIC_DOC_2 (Release Notes)	Y	VLD	http://globus.org.eu/toolkit/docs/5.2/5.2.1/myproxy/rn/#myproxyRN
GENERIC_DOC_5 (API Documentation)	Y	VLD	http://globus.org.eu/toolkit/docs/5.2/5.2.1/myproxy/pi/#myproxyPI
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	The documentation is available at http://globus.org.eu/toolkit/docs/5.2/5.2.1/myproxy/admin/ but it is more oriented to source code installation. It's not completely adapted for UMD Package installation.
GENERIC_DOC_7 (Service Reference Card)			
GENERIC_DOC_8 (Software License)	Y	VLD	Globus, Globus Alliance, and Globus Toolkit
GENERIC_DOC_9 (Release changes testing)			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	http://www.globus.org/toolkit/downloads/
GENERIC_DIST_2 (Source Distribution)	Y	VLD	http://www.globus.org/toolkit/downloads/
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	http://www.globus.org/toolkit/downloads/
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	Read Ex Summary
GENERIC_SERVICE_2 (Log Files)	Y	VLD	
GENERIC_SERVICE_3 (Service Reliability)	Y	VLD	
GENERIC_SERVICE_4 (Service Robustness)			
GENERIC_SERVICE_4 (Automatic Configuration)			
GENERIC_SEC_1 (World Writable Files)			
GENERIC_SEC_2 (Directory Traversal Attacks testing)	Optional		
GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	https://bugzilla.mcs.anl.gov/globus/
Security Capabilities QC			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	Read Ex Summary
AUTHN_IFACE_2 (SAML authentication)	Optional		
AUTHZ_PCYDEF_3 (Ban UserFQAN)	Y	VLD	http://grid.ncsa.illinois.edu/myproxy/blacklist.html
AUTHZ_PCYDEF_4 (Allowed users definition)	Y	VLD	http://grid.ncsa.illinois.edu/myproxy/blacklist.html
AUTHZ_PEP_1 (Policy Enforcement)			
CREDMGMT_IFACE_1 (Credential Storage)	Y	VLD	Read Ex Summary
CREDMGMT_IFACE_2 (Credential Retrieval)	Y	VLD	Read Ex Summary
CREDMGMT_IFACE_3 (Credential Renewal)	Y	VLD	Read Ex Summary
CREDMGMT_LINK_1 (Institutional Authentication Linking)			
Operations Capabilities QC			
MON_PROBE_GENERIC_2 (Service Probe)			

Validator comments:

IGE.globus-myproxy was installed from scratch without any relevant issue.

=== Repositories ===

(!) Verifier must install a new repo for each product, this information is available at RT ticket field:

```
{{{
```

```
[root@test26 yum.repos.d]# cat IGE.globus-myproxy.sl5.x86_64.repo
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -
(4077,651,577)
```

```
[IGE.globus-myproxy.sl5.x86_64]
name=IGE.globus-myproxy.sl5.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-2.ige.globus-
myproxy.sl5.x86_64/5/6/3/
enabled=1
protect=1
```

```
priority=1
gpgcheck=1
gpgkey=http://repo-rpm.ige-project.eu/RPM-GPG-KEY-IGE
}}}
```

```
==== Installing =====
```

```
===== Installing the ige-meta-globus-myproxy meta-package (OK) =====
```

```
* yum install ige-meta-globus-myproxy
```

```
{{{
```

```
Jul 18 13:06:37 Installed: voms-2.0.7-1.el5.x86_64
Jul 18 13:06:38 Installed: libtool-ltdl-1.5.22-7.el5_4.x86_64
Jul 18 13:06:38 Installed: globus-common-14.6-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-gsi-openssl-error-2.1-2.el5.x86_64
Jul 18 13:06:38 Installed: globus-gsi-sysconfig-5.2-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-gsi-proxy-ssl-4.1-2.el5.x86_64
Jul 18 13:06:38 Installed: globus-openssl-module-3.2-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-gsi-cert-utils-8.3-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-gsi-callback-4.2-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-gsi-credential-5.3-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-gsi-proxy-core-6.2-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-gssapi-gsi-10.6-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-xio-3.3-1.el5.x86_64
Jul 18 13:06:38 Installed: globus-usage-3.1-2.el5.x86_64
Jul 18 13:06:38 Installed: globus-common-progs-14.6-1.el5.x86_64
Jul 18 13:06:39 Installed: globus-callout-2.2-1.el5.x86_64
Jul 18 13:06:39 Installed: globus-gss-assist-8.5-1.el5.x86_64
Jul 18 13:06:39 Installed: myproxy-libs-5.6-3.1.el5.x86_64
Jul 18 13:06:39 Installed: myproxy-server-5.6-3.1.el5.x86_64
Jul 18 13:06:39 Installed: globus-proxy-utils-5.0-2.el5.x86_64
Jul 18 13:06:39 Installed: voms-clients-2.0.7-1.el5.x86_64
Jul 18 13:06:39 Installed: myproxy-5.6-3.1.el5.x86_64
Jul 18 13:06:39 Installed: 1:pkgconfig-0.21-2.el5.x86_64
Jul 18 13:06:39 Installed: perl-Compress-Zlib-1.42-1.fc6.x86_64
Jul 18 13:06:39 Installed: globus-gsi-cert-utils-progs-8.3-1.el5.x86_64
Jul 18 13:06:40 Installed: perl-URI-1.35-3.noarch
Jul 18 13:06:40 Installed: myproxy-admin-5.6-3.1.el5.x86_64
Jul 18 13:06:40 Installed: myproxy-doc-5.6-3.1.el5.x86_64
Jul 18 13:06:40 Installed: e2fsprogs-devel-1.39-23.el5.x86_64
Jul 18 13:06:40 Installed: libsepol-devel-1.15.2-3.el5.x86_64
Jul 18 13:06:40 Installed: libselinux-devel-1.33.4-5.7.el5.x86_64
Jul 18 13:06:40 Installed: perl-HTML-Tagset-3.10-2.1.1.noarch
Jul 18 13:06:40 Installed: perl-HTML-Parser-3.55-1.fc6.x86_64
Jul 18 13:06:41 Installed: perl-libwww-perl-5.805-1.1.1.noarch
Jul 18 13:06:41 Installed: perl-XML-Parser-2.34-6.1.2.2.1.x86_64
Jul 18 13:06:41 Installed: globus-core-8.8-1.el5.x86_64
Jul 18 13:06:41 Installed: globus-common-devel-14.6-1.el5.x86_64
Jul 18 13:06:41 Installed: globus-callout-devel-2.2-1.el5.x86_64
Jul 18 13:06:41 Installed: globus-xio-devel-3.3-1.el5.x86_64
Jul 18 13:06:41 Installed: globus-usage-devel-3.1-2.el5.x86_64
```

```

Jul 18 13:06:41 Installed: keyutils-libs-devel-1.2-1.el5.x86_64
Jul 18 13:06:41 Installed: krb5-devel-1.6.1-70.el5.x86_64
Jul 18 13:06:42 Installed: zlib-devel-1.2.3-3.x86_64
Jul 18 13:06:43 Installed: openssl-devel-0.9.8e-22.el5_8.4.x86_64
Jul 18 13:06:43 Installed: globus-gsi-openssl-error-devel-2.1-2.el5.x86_64
Jul 18 13:06:43 Installed: globus-gsi-proxy-ssl-devel-4.1-2.el5.x86_64
Jul 18 13:06:43 Installed: globus-openssl-module-devel-3.2-1.el5.x86_64
Jul 18 13:06:43 Installed: globus-gsi-cert-utils-devel-8.3-1.el5.x86_64
Jul 18 13:06:44 Installed: globus-gsi-sysconfig-devel-5.2-1.el5.x86_64
Jul 18 13:06:44 Installed: globus-gsi-callback-devel-4.2-1.el5.x86_64
Jul 18 13:06:44 Installed: globus-gsi-credential-devel-5.3-1.el5.x86_64
Jul 18 13:06:44 Installed: globus-gsi-proxy-core-devel-6.2-1.el5.x86_64
Jul 18 13:06:44 Installed: globus-gssapi-gsi-devel-10.6-1.el5.x86_64
Jul 18 13:06:44 Installed: globus-gss-assist-devel-8.5-1.el5.x86_64
Jul 18 13:06:44 Installed: myproxy-devel-5.6-3.1.el5.x86_64
Jul 18 13:06:44 Installed: ige-meta-globus-myproxy-2.1-1.el5.noarch
Jul 18 13:06:44 Installed: voms-2.0.7-1.el5.x86_64
}}}}

```

* Make sure to place the two files in the target node into the /etc/grid-security directory. Then set the proper mode and ownerships doing:

```

{{{
chown root.root /etc/grid-security/hostcert.pem

chown root.root /etc/grid-security/hostkey.pem

chmod 600 /etc/grid-security/hostcert.pem

chmod 400 /etc/grid-security/hostkey.pem
}}}

```

==== Configuring the MyProxy Server Installation ====

* To enable all myproxy-server features, uncomment to provided sample policy at the top of the myproxy-server.config config file, as follows:

```

{{{
vi /etc/myproxy-server.config
[ ... ]

#
# Complete Sample Policy #1 - Credential Repository
#
# The following lines define a sample policy that enables all
# myproxy-server credential repository features.
# See below for more examples.
accepted_credentials      "*"
authorized_retrievers     "*"

```

```

default_retrievers      "*"
authorized_renewers     "*"
default_renewers        "none"
authorized_key_retrievers "*"
default_key_retrievers  "none"
trusted_retrievers      "*"
default_trusted_retrievers "none"
cert_dir /etc/grid-security/certificates
}}}

```

==== Manually Verifying the MyProxy Server installation ====

* Run \$GLOBUS_LOCATION/sbin/myproxy-server -d. The -d argument runs the myproxy-server in debug mode. It will write debugging messages to the terminal and exit after servicing a single request. You'll need to start it once for each test request,

```

{{{
root@test26 yum.repos.d]# /usr/sbin/myproxy-server -d
myproxy-server v5.6 20 Feb 2012 PAM SASL KRB5 LDAP VOMS OCSP starting at
Wed Jul 18 13:13:24 2012
reading configuration file /etc/myproxy-server.config
allow_voms_attribute_requests is not set.
VOMS attribute requests will be ignored.
Processing usage_stats_target (statistics.ige-project.eu:4810)
usage_stats: initialized (statistics.ige-project.eu:4810) (VvtrILB)
using storage directory /var/lib/myproxy
WARNING: safe_is_path_trusted_r: /var/lib/myproxy can be modified by users/groups
other than uid=0/gid=0
/var/lib/myproxy not owned by root
Exiting. Please fix errors with storage directory and restart.
}}}

```

```

{{{
[root@test26 yum.repos.d]# chown -R root.root /var/lib/myproxy
}}}

```

```

{{{
[root@test26 yum.repos.d]# /usr/sbin/myproxy-server -d
myproxy-server v5.6 20 Feb 2012 PAM SASL KRB5 LDAP VOMS OCSP starting at
Wed Jul 18 13:15:56 2012
reading configuration file /etc/myproxy-server.config
allow_voms_attribute_requests is not set.
VOMS attribute requests will be ignored.
Processing usage_stats_target (statistics.ige-project.eu:4810)
usage_stats: initialized (statistics.ige-project.eu:4810) (VvtrILB)
using storage directory /var/lib/myproxy
Using Host cert file (/etc/grid-security/hostcert.pem), key file (/etc/grid-
security/hostkey.pem)
Starting myproxy-server on localhost:7512...
}}}

```

==== Running the MyProxy Server as a System Service ====

{{{

* You may want to set the MYPROXY_SERVER environment variable to the hostname of your myproxy-server in the default user environment on your systems.

{{{

```
[root@test26 profile.d]# cat grid_env.sh
## Environment for IGE Globus Myproxy
export MYPROXY_SERVER=test26.egi.cesga.es
```

}}}

{{{

```
[root@test26 ~]# env | grep -i MYPROXY_SERVER
MYPROXY_SERVER=test26.egi.cesga.es
```

}}}

==== Deploying ====

* You'll need to modify the paths in the file according to your installation.

{{{

```
[root@test26 /]# cat /etc/init.d/myproxy-server
[ ... ]
# Defaults
##MYPROXY_USER=myproxy
MYPROXY_USER=root
MYPROXY_OPTIONS=""
##X509_USER_CERT=/etc/grid-security/myproxy/hostcert.pem
##X509_USER_KEY=/etc/grid-security/myproxy/hostkey.pem
```

```
X509_USER_CERT=/etc/grid-security/hostcert.pem
X509_USER_KEY=/etc/grid-security/hostkey.pem
```

}}}

{{{

```
[root@test26 ~]# /etc/init.d/myproxy-server start
Starting myproxy-server: [ OK ]
```

```
[root@test26 ~]# /etc/init.d/myproxy-server status
myproxy-server (pid 15201) is running...
```

}}}

==== TESTING ====

==== Checking release notes =====

{{{

```
[root@test26 ~]# ls /usr/share/doc/myproxy-*/
/usr/share/doc/myproxy-5.6:
```

INSTALL LICENSE LICENSE.globus LICENSE.netbsd LICENSE.pidfile
LICENSE.pubcookie LICENSE.safefile LICENSE.sasl PROTOCOL README
VERSION

/usr/share/doc/myproxy-doc-5.6:
extras html refman.pdf

/usr/share/doc/myproxy-server-5.6:
README.Fedora

}}}

==== Testing from the myproxy server ====

* Environment

```
{
OSTNAME=test26.egi.cesga.es
TERM=xterm
SHELL=/bin/bash
HISTSIZE=1000
SSH_CLIENT=193.144.44.143 46100 22
SSH_TTY=/dev/pts/0
USER=root
LS_COLORS=no=00:fi=00:di=00;34:ln=00;36:pi=40;33:so=00;35:bd=40;33;01:cd=40;
33;01:or=01;05;37;41:mi=01;05;37;41:ex=00;32:*.cmd=00;32:*.exe=00;32:*.com=00;
32:*.btm=00;32:*.bat=00;32:*.sh=00;32:*.csh=00;32:*.tar=00;31:*.tgz=00;31:*.arj=00;
31:*.taz=00;31:*.lzh=00;31:*.zip=00;31:*.z=00;31:*.Z=00;31:*.gz=00;31:*.bz2=00;31:
*.bz=00;31:*.tz=00;31:*.rpm=00;31:*.cpio=00;31:*.jpg=00;35:*.gif=00;35:*.bmp=00;
35:*.xbm=00;35:*.xpm=00;35:*.png=00;35:*.tif=00;35:
MAIL=/var/spool/mail/root
PATH=/usr/kerberos/sbin:/usr/kerberos/bin:/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/s
bin:/usr/bin:/root/bin
INPUTRC=/etc/inputrc
PWD=/root
LANG=en_US.utf8
MYPROXY_SERVER=test26.egi.cesga.es
SHLVL=1
HOME=/root
LOGNAME=root
SSH_CONNECTION=193.144.44.143 46100 84.21.169.131 22
LESSOPEN=|/usr/bin/lesspipe.sh %s
G_BROKEN_FILENAMES=1
_=/bin/env
}
```

* Managing Credentials

```
{
[esfreire@test26 ~]$ myproxy-init -s test26.egi.cesga.es
Your identity: /DC=es/DC=irisgrid/O=cesga/CN=esteban.freire
Enter GRID pass phrase for this identity:
```

```
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Wed Jul 25 14:34:34 2012
Enter MyProxy pass phrase:
Verifying - Enter MyProxy pass phrase:
A proxy valid for 168 hours (7.0 days) for user esfreire now exists on
test26.egi.cesga.es.
[esfreire@test26 ~]$
}}}
```

* Setting the lifetime

```
{
[esfreire@test26 ~]$ myproxy-init -c 0 -s test26.egi.cesga.es
Your identity: /DC=es/DC=irisgrid/O=cesga/CN=esteban.freire
Enter GRID pass phrase for this identity:
Creating
proxy .....
Done
Proxy Verify OK
Your proxy is valid until: Sat Feb 16 13:07:51 2013
Enter MyProxy pass phrase:
Verifying - Enter MyProxy pass phrase:
A proxy valid for 5111 hours (213.0 days) for user esfreire now exists on
test26.egi.cesga.es.
}}}
```

* Once you've stored a credential in the MyProxy repository, you can retrieve a proxy credential whenever you need one with the myproxy-logon command

```
{
[esfreire@test26 ~]$ myproxy-logon -s test26.egi.cesga.es
Enter MyProxy pass phrase:
A credential has been received for user esfreire in /tmp/x509up_u500.
}}}
```

* Renewing Credentials

```
{
[esfreire@test26 ~]$ myproxy-init -A -k renewable -s test26.egi.cesga.es
Your identity: /DC=es/DC=irisgrid/O=cesga/CN=esteban.freire
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Wed Jul 25 14:37:19 2012
A proxy valid for 168 hours (7.0 days) for user esfreire now exists on
test26.egi.cesga.es.
}}}
```

==== Testing from one of CESGA UIs ====

* Managing Credentials


```
{}{}
[esfreire@test13 ~]$ myproxy-init -s test26.egi.cesga.es
Your identity: /DC=es/DC=irisgrid/O=cesga/CN=esteban.freire
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Wed Jul 25 14:41:39 2012
Enter MyProxy pass phrase:
Verifying - Enter MyProxy pass phrase:
A proxy valid for 168 hours (7.0 days) for user esfreire now exists on
test26.egi.cesga.es.
{}{}
```

* Setting the lifetime

```
{}{}
[esfreire@test13 ~]$ myproxy-init -c 0 -s test26.egi.cesga.es
Your identity: /DC=es/DC=irisgrid/O=cesga/CN=esteban.freire
Enter GRID pass phrase for this identity:
Creating
proxy .....
..... Done
Proxy Verify OK
Your proxy is valid until: Sat Feb 16 13:07:51 2013
Enter MyProxy pass phrase:
Verifying - Enter MyProxy pass phrase:
A proxy valid for 5111 hours (213.0 days) for user esfreire now exists on
test26.egi.cesga.es.
{}{}
```

* Once you've stored a credential in the MyProxy repository, you can retrieve a proxy credential whenever you need one with the myproxy-logon command

```
{}{}
[esfreire@test13 ~]$ myproxy-logon -s test26.egi.cesga.es
Enter MyProxy pass phrase:
A credential has been received for user esfreire in /tmp/x509up_u505.
{}{}
```

* Renewing Credentials

```
{}{}
[esfreire@test13 ~]$ myproxy-init -A -k renewable -s test26.egi.cesga.es
Your identity: /DC=es/DC=irisgrid/O=cesga/CN=esteban.freire
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Wed Jul 25 14:43:46 2012
A proxy valid for 168 hours (7.0 days) for user esfreire now exists on
test26.egi.cesga.es.
[esfreire@test13 ~]$
{}{}
```

```
{}  
[esfreire@test13 ~]$ myproxy-logon -a /tmp/x509up_u505 -k renewable -l esfreire  
Failed to receive credentials.  
ERROR from myproxy-server:  
Error getting client VOMS attributes (Failed to read VOMS attributes: ). Continuing  
without attributes support.  
"/DC=es/DC=irisgrid/O=cesga/CN=esteban.freire" not authorized by server's  
trusted_retrievers policy  
"/DC=es/DC=irisgrid/O=cesga/CN=esteban.freire" not authorized by server's  
authorized_retrievers policy  
"/DC=es/DC=irisgrid/O=cesga/CN=esteban.freire" not authorized by server's  
authorized_renewers policy  
{}
```

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: