

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

Name of the component	ige.security-integration.debian-squeeze.amd64-2.2.1		
Release	V2.2.1	RT Ticket	#4460
Software Provider	IGE		
Release Contact	Name:	E-Mail	
	Mattias Ellert	mattias.ellert@fysast.uu.se	
Validator	Name:	E-Mail	
	Esteban Freire	esfreire@cesga.es	
V. Hours Worked	2h		
Component status	Accepted	Date	18/01/13
Verification start date	18/01/13	Verification end date	21/01/13

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	14	0	2	16
	Specific Quality Criteria			
TP				
VLD	4	0	5	9

Summary:

No issues found during the verification process.

Criteria	Accepted (Y/N)	Tested (T/F)	Comments
Generic QC			
GENERIC_DOC_1 (Functional Description)	Y	VLD	http://wiki.nikhef.nl/grid/Site_Access_Control
GENERIC_DOC_2 (Release Notes)	Y	VLD	http://wiki.nikhef.nl/grid/Site_Access_Control
GENERIC_DOC_5 (API Documentation)	Y	VLD	
GENERIC_DOC_6 (Administrator Document)	Y	VLD	http://wiki.nikhef.nl/grid/Site_Access_Control
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	
GENERIC_DOC_8 (Software License)	Y	VLD	GTPL http://www.globus.org/toolkit/docs/4.2/4.2.1/licenses/license-v3.htm
GENERIC_DOC_9 (Release changes testing)	Y	VLD	
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	
GENERIC_DIST_2 (Source Distribution)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
GENERIC_SERVICE_1 (Service control and monitoring)	NA		
GENERIC_SERVICE_2 (Log Files)	NA		
GENERIC_SERVICE_3 (Service Reliability)	Y	VLD	
GENERIC_SERVICE_4 (Service Robustness)	Y	VLD	
GENERIC_SERVICE_4 (Automatic Configuration)	Y	VLD	
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_2 (Directory Traversal Attacks)	Optional		
GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	GGUS
Security Capabilities QC			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	
AUTHN_IFACE_2 (SAML authentication)	Optional		
AUTHZ_PCYDEF_3 (Ban UserFQAN)	Y	VLD	
AUTHZ_PCYDEF_4 (Allowed users definition)	Y	VLD	
AUTHZ_PEP_1 (Policy Enforcement)	Y	VLD	
CREDMGMT_IFACE_1 (Credential Storage)	NA	VLD	
CREDMGMT_IFACE_2 (Credential Retrieval)	NA	VLD	
CREDMGMT_IFACE_3 (Credential Renewal)	NA	VLD	

Validator comments:

<<TableOfContents>>

== IGE.security-integration.debian-squeeze.amd64-2.2.1 ==

=== Ticket assigned ===

* [[<https://rt.egi.eu/rt/Ticket/Display.html?id=4460>]]

* Open ticket:

* [[]]

=== Repositories ===

== Installing the repository (OK) ==

{{{

```
root@fedcloud-tf:/etc/apt/sources.list.d# cat IGE.security-integration.debian-squeeze.amd64.list
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) - (4460,748,675)
```

```
deb http://admin-repo.egi.eu/sw/unverified/umd-2.ige.security-integration.debian-squeeze.amd64/2/2/1/ ./
```

}}}

{{{

```
[root@test26 yum.repos.d]# apt-get install ige-meta-security-integration
```

[....]

```
root@fedcloud-tf:/etc/apt/sources.list.d# apt-get install ige-meta-security-integration
```

```
Reading package lists... Done
```

```
Building dependency tree
```

```
Reading state information... Done
```

```
The following extra packages will be installed:
```

```
  lcas-lcmapi-gt4-interface lcmapi-plugins-jobrep lcmapi-plugins-scas-client libglobus-gridmap-callout-error0 liblcmapi0 libvomsapi0 libxacml-dev libxacml0
```

```
The following NEW packages will be installed:
```

```
  ige-meta-security-integration lcas-lcmapi-gt4-interface lcmapi-plugins-jobrep lcmapi-plugins-scas-client libglobus-gridmap-callout-error0 liblcmapi0 libvomsapi0 libxacml-dev libxacml0
```

```
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
```

```
Need to get 1216 kB of archives.
```

```
After this operation, 3990 kB of additional disk space will be used.
```

}}}

== Testing ==

{{{

```
# export X509_CERT_DIR=/etc/grid-security/certificates
```

```
[esfreire@test26 ~]$ /usr/bin/openssl x509 -hash -noout < /etc/grid-security/certificates/pkIRISGrid.pem
```

```
9dd23746
```

```
[esfreire@test26 ~]$ /usr/bin/openssl x509 -hash -noout < /etc/grid-security/certificates/pkIRISGrid.pem
```

```
9dd23746
```

```
[esfreire@test26 ~]$ grid-cert-diagnostics
```

```
[ ..... ]
```

```
Checking CA certificate name for 4220f3a5.0...ok (/DC=EDU/DC=UTEXAS/DC=TACC/O=UT-AUSTIN/CN=TACC Classic CA)
```

```
Checking if signing policy exists for 4220f3a5.0... ok
```

```
Verifying certificate chain for 4220f3a5.0... ok
```

```
Checking CA file /etc/grid-security/certificates/82c2b224.0... ok
```

```
Checking that certificate hash matches filename... ok
```

```
Checking CA certificate name for 82c2b224.0...ok (/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1)
```

```
Checking if signing policy exists for 82c2b224.0... ok
```

```
Verifying certificate chain for 82c2b224.0... ok
```

```
Checking CA file /etc/grid-security/certificates/ff430c7f.0... ok
```

```
Checking that certificate hash matches filename... ok
```

```
Checking CA certificate name for ff430c7f.0...ok (/C=CH/O=Switch - Teleinformatikdienste fuer Lehre und Forschung/CN=SWITCHgrid Root CA)
```

```
Checking if signing policy exists for ff430c7f.0... ok
```

```
Verifying certificate chain for ff430c7f.0... ok
```

Checking CA file /etc/grid-security/certificates/ee64a828.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for ee64a828.0...ok (/C=GB/ST=Greater Manchester/L=Salford/O=Comodo CA Limited/CN=AAA Certificate Services)

Checking if signing policy exists for ee64a828.0... ok

Verifying certificate chain for ee64a828.0... ok

Checking CA file /etc/grid-security/certificates/03b260e0.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for 03b260e0.0...ok (/C=PL/O=GRID/CN=Polish Grid CA)

Checking if signing policy exists for 03b260e0.0... ok

Verifying certificate chain for 03b260e0.0... ok

Checking CA file /etc/grid-security/certificates/28a58577.0... ok

Checking that certificate hash matches filename... failed

CA hash '524cae41.0' does not match CA filename

Checking CA file /etc/grid-security/certificates/dd51b42a.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for dd51b42a.0...ok (/DC=ORG/DC=SEE-GRID/CN=SEE-GRID CA)

Checking if signing policy exists for dd51b42a.0... ok

Verifying certificate chain for dd51b42a.0... ok

Checking CA file /etc/grid-security/certificates/bfafd1bd.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for bfafd1bd.0...ok (/C=IL/O=IUCC/CN=IUCC/emailAddress=ca@mail.iucc.ac.il)

Checking if signing policy exists for bfafd1bd.0... ok

Verifying certificate chain for bfafd1bd.0... ok

Checking CA file /etc/grid-security/certificates/d87163a8.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for d87163a8.0...ok (/C=US/O=National Center for Supercomputing Applications/OU=Certificate Authorities/CN=GridShib CA)

Checking if signing policy exists for d87163a8.0... ok

Verifying certificate chain for d87163a8.0... ok

Checking CA file /etc/grid-security/certificates/1f3834d0.0... ok

Checking that certificate hash matches filename... failed

CA hash '18bc5b05.0' does not match CA filename

Checking CA file /etc/grid-security/certificates/99f9f5a3.0... ok

Checking that certificate hash matches filename... failed

CA hash 'f57f9e36.0' does not match CA filename

Checking CA file /etc/grid-security/certificates/0119347c.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for 0119347c.0...ok (/DC=net/DC=ES/O=ESnet/OU=Certificate Authorities/CN=ESnet Root CA 1)

Checking if signing policy exists for 0119347c.0... ok

Verifying certificate chain for 0119347c.0... ok

}}}

{{{

[esfreire@test26 ~]\$ grid-cert-diagnostics -p

Checking Environment Variables

=====

Checking if HOME is set... /home/esfreire

Checking if GLOBUS_LOCATION is set... no

Checking for default GLOBUS_LOCATION... /usr

Checking if X509_CERT_DIR is set... no

Checking if X509_USER_CERT is set... no

Checking if X509_USER_KEY is set... no

Checking if X509_USER_PROXY is set... no

Checking if GRIDMAP is set... no

Checking Security Directories

=====
Determining trusted cert path... /etc/grid-security/certificates

Checking for cog.properties... not found

Checking for default gridmap location... /home/esfreire/.gridmap

Checking if default gridmap exists... failed

globus_sysconfig: File does not exist: /home/esfreire/.gridmap is not a valid file

Checking Default Credentials

=====
Determining certificate and key file names... ok

Certificate Path: "/home/esfreire/.globus/usercert.pem"

Key Path: "/home/esfreire/.globus/userkey.pem"

Reading certificate... ok

Reading private key...

ok

Checking Certificate Subject... "/DC=es/DC=irisgrid/O=cesga/CN=javier-lopez"

Checking cert... ok

Checking key... ok

Checking that certificate contains an RSA key... ok

Checking that private key is an RSA key... ok

Checking that public and private keys have the same modulus... ok

Checking certificate trust chain... ok

Checking if subject is in gridmap... error parsing gridmap /home/esfreire/.gridmap

Checking trusted certificates...

=====
Getting trusted certificate list...

```
Checking CA file /etc/grid-security/certificates/d0b701c0.0... ok
Checking that certificate hash matches filename... failed
    CA hash 'ff430c7f.0' does not match CA filename
Checking CA file /etc/grid-security/certificates/56084620.0... ok
Checking that certificate hash matches filename... ok
Checking CA certificate name for 56084620.0...ok (/DC=me/DC=ac/DC=MREN/CN=MREN-CA)
Checking if signing policy exists for 56084620.0... ok
Verifying certificate chain for 56084620.0... ok
Checking CA file /etc/grid-security/certificates/fc1898ec.0... ok
Checking that certificate hash matches filename... failed
    CA hash '6cad3d39.0' does not match CA filename
Checking CA file /etc/grid-security/certificates/d33760ec.0... ok
Checking that certificate hash matches filename... failed
    CA hash '58b08cb5.0' does not match CA filename
Checking CA file /etc/grid-security/certificates/11b4a5a2.0... ok
}}}
```

```
{{{
```

```
[esfreire@test26 ~]$ grid-proxy-init
Your identity: /DC=es/DC=irisgrid/O=cesga/CN=javier-lopez
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Your proxy is valid until: Sat Jan 19 01:35:19 2013
```

```
[esfreire@test26 ~]$ grid-cert-info -sd -ed
Jan 4 12:26:21 2013 GMT
Jan 4 12:26:21 2014 GMT
```



```
[esfreire@test26 ~]$ grid-cert-info -subject  
/DC=es/DC=irisgrid/O=cesga/CN=javier-lopez
```

```
[esfreire@test26 ~]$ grid-cert-info -subject -rfc2253  
CN=javier-lopez,O=cesga,DC=irisgrid,DC=e  
}}
```

```
== Testing ==
```

```
{{{  
# export X509_CERT_DIR=/etc/grid-security/certificates
```

```
[esfreire@test26 ~]$ /usr/bin/openssl x509 -hash -noout < /etc/grid-  
security/certificates/pkIRISGrid.pem  
9dd23746
```

```
[esfreire@test26 ~]$ grid-cert-diagnostics
```

```
[ ..... ]
```

```
Checking CA certificate name for 4220f3a5.0...ok (/DC=EDU/DC=UTEXAS/DC=TACC/O=UT-  
AUSTIN/CN=TACC Classic CA)
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```
Checking if signing policy exists for 4220f3a5.0... ok
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```
Verifying certificate chain for 4220f3a5.0... ok
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Checking CA file /etc/grid-security/certificates/82c2b224.0... ok
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```
Checking that certificate hash matches filename... ok
```

```
Checking CA certificate name for 82c2b224.0...ok (/DC=com/DC=DigiCert-Grid/O=DigiCert  
Grid/CN=DigiCert Grid CA-1)
```

```
Checking if signing policy exists for 82c2b224.0... ok
```

Verifying certificate chain for 82c2b224.0... ok

Checking CA file /etc/grid-security/certificates/ff430c7f.0... ok

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Checking CA certificate name for ff430c7f.0...ok (/C=CH/O=Switch - Teleinformatikdienste fuer Lehre und Forschung/CN=SWITCHgrid Root CA)

Checking if signing policy exists for ff430c7f.0... ok

Verifying certificate chain for ff430c7f.0... ok

Checking CA file /etc/grid-security/certificates/ee64a828.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for ee64a828.0...ok (/C=GB/ST=Greater Manchester/L=Salford/O=Comodo CA Limited/CN=AAA Certificate Services)

Checking if signing policy exists for ee64a828.0... ok

Verifying certificate chain for ee64a828.0... ok

Checking CA file /etc/grid-security/certificates/03b260e0.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for 03b260e0.0...ok (/C=PL/O=GRID/CN=Polish Grid CA)

Checking if signing policy exists for 03b260e0.0... ok

Verifying certificate chain for 03b260e0.0... ok

Checking CA file /etc/grid-security/certificates/28a58577.0... ok

Checking that certificate hash matches filename... failed

CA hash '524cae41.0' does not match CA filename

Checking CA file /etc/grid-security/certificates/dd51b42a.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for dd51b42a.0...ok (/DC=ORG/DC=SEE-GRID/CN=SEE-GRID CA)

Checking if signing policy exists for dd51b42a.0... ok

Verifying certificate chain for dd51b42a.0... ok

Checking CA file /etc/grid-security/certificates/bfafd1bd.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for bfafd1bd.0...ok (/C=IL/O=IUCC/CN=IUCC/emailAddress=ca@mail.iucc.ac.il)

Checking if signing policy exists for bfafd1bd.0... ok
Verifying certificate chain for bfafd1bd.0... ok
Checking CA file /etc/grid-security/certificates/d87163a8.0... ok
Checking that certificate hash matches filename... ok
Checking CA certificate name for d87163a8.0...ok (/C=US/O=National Center for Supercomputing Applications/OU=Certificate Authorities/CN=GridShib CA)
Checking if signing policy exists for d87163a8.0... ok
Verifying certificate chain for d87163a8.0... ok
Checking CA file /etc/grid-security/certificates/1f3834d0.0... ok
Checking that certificate hash matches filename... failed
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Checking that certificate hash matches filename... failed
CA hash 'f57f9e36.0' does not match CA filename
Checking CA file /etc/grid-security/certificates/0119347c.0... ok
Checking that certificate hash matches filename... ok
Checking CA certificate name for 0119347c.0...ok (/DC=net/DC=ES/O=ESnet/OU=Certificate Authorities/CN=ESnet Root CA 1)
Checking if signing policy exists for 0119347c.0... ok
Verifying certificate chain for 0119347c.0... ok
}}}

{{{

[esfreire@test26 ~]\$ grid-cert-diagnostics -p

Checking Environment Variables

=====

Checking if HOME is set... /home/esfreire

Checking if GLOBUS_LOCATION is set... no

Checking for default GLOBUS_LOCATION... /usr

Checking if X509_CERT_DIR is set... no
Checking if X509_USER_CERT is set... no
Checking if X509_USER_KEY is set... no
Checking if X509_USER_PROXY is set... no
Checking if GRIDMAP is set... no

Checking Security Directories

=====

Determining trusted cert path... /etc/grid-security/certificates
Checking for cog.properties... not found
Checking for default gridmap location... /home/esfreire/.gridmap
Checking if default gridmap exists... failed
 globus_sysconfig: File does not exist: /home/esfreire/.gridmap is not a valid file

Checking Default Credentials

=====

Determining certificate and key file names... ok
Certificate Path: "/home/esfreire/.globus/usercert.pem"
Key Path: "/home/esfreire/.globus/userkey.pem"
Reading certificate... ok
Reading private key...
ok
Checking Certificate Subject... "/DC=es/DC=irisgrid/O=cesga/CN=javier-lopez"
Checking cert... ok
Checking key... ok
Checking that certificate contains an RSA key... ok
Checking that private key is an RSA key... ok
Checking that public and private keys have the same modulus... ok

Checking certificate trust chain... ok

Checking if subject is in gridmap... error parsing gridmap /home/esfreire/.gridmap

Checking trusted certificates...

=====

Getting trusted certificate list...

Checking CA file /etc/grid-security/certificates/d0b701c0.0... ok

Checking that certificate hash matches filename... failed

CA hash 'ff430c7f.0' does not match CA filename

Checking CA file /etc/grid-security/certificates/56084620.0... ok

Checking that certificate hash matches filename... ok

Checking CA certificate name for 56084620.0...ok (/DC=me/DC=ac/DC=MREN/CN=MREN-CA)

Checking if signing policy exists for 56084620.0... ok

Verifying certificate chain for 56084620.0... ok

Checking CA file /etc/grid-security/certificates/fc1898ec.0... ok

Checking that certificate hash matches filename... failed

CA hash '6cad3d39.0' does not match CA filename

Checking CA file /etc/grid-security/certificates/d33760ec.0... ok

Checking that certificate hash matches filename... failed

CA hash '58b08cb5.0' does not match CA filename

Checking CA file /etc/grid-security/certificates/11b4a5a2.0... ok

}}}

{{{

[esfreire@test26 ~]\$ grid-proxy-init

Your identity: /DC=es/DC=irisgrid/O=cesga/CN=javier-lopez

Enter GRID pass phrase for this identity:

Creating proxy Done

Your proxy is valid until: Sat Jan 19 01:35:19 2013

```
[esfreire@test26 ~]$ grid-cert-info -sd -ed
```

```
Jan 4 12:26:21 2013 GMT
```

```
Jan 4 12:26:21 2014 GMT
```

```
[esfreire@test26 ~]$ grid-cert-info -subject
```

```
/DC=es/DC=irisgrid/O=cesga/CN=javier-lopez
```

```
[esfreire@test26 ~]$ grid-cert-info -subject -rfc2253
```

```
CN=javier-lopez,O=cesga,DC=irisgrid,DC=e
```

```
}}
```

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):

No issues found during the verification process.

Comments for DMSU (TSA2.5):

Comments for TP: