

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

Name of the component	<b>ige.security-integration.sl6.x86_64-2.2.1</b>		
Release	V2.2.1	RT Ticket	#4446
Software Provider	IGE		
Release Contact	Name:	E-Mail	
	Mattias Ellert	<a href="mailto:mattias.ellert@fysast.uu.se">mattias.ellert@fysast.uu.se</a>	
Validator	Name:	E-Mail	
	Esteban Freire	esfreire@cesga.es	
V. Hours Worked	2h		
Component status	<b>Accepted</b>	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
<b>TP</b>				
<b>VLD</b>	14	0	2	16
	Specific Quality Criteria			
<b>TP</b>				
<b>VLD</b>	4	0	5	9

**Summary:**

No issues found during the verification process.

Criteria	Accepted (Y/N)	Tested (T/F)	Comments
<b>Generic QC</b>			
GENERIC_DOC_1 (Functional Description)	Y	VLD	<a href="http://wiki.nikhef.nl/grid/Site_Access_Control">http://wiki.nikhef.nl/grid/Site_Access_Control</a>
GENERIC_DOC_2 (Release Notes)	Y	VLD	<a href="http://wiki.nikhef.nl/grid/Site_Access_Control">http://wiki.nikhef.nl/grid/Site_Access_Control</a>
GENERIC_DOC_5 (API Documentation)	Y	VLD	
GENERIC_DOC_6 (Administrator Document)	Y	VLD	<a href="http://wiki.nikhef.nl/grid/Site_Access_Control">http://wiki.nikhef.nl/grid/Site_Access_Control</a>
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	
GENERIC_DOC_8 (Software License)	Y	VLD	GTPL <a href="http://www.globus.org/toolkit/docs/4.2/4.2.1/licenses/license-v3.htm">http://www.globus.org/toolkit/docs/4.2/4.2.1/licenses/license-v3.htm</a>
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
<b>Security Capabilities QC</b>			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	
AUTHN_IFACE_2 (SAML authentication)	Optional		
AUTHZ_PCYDEF_3 (Ban User FQAN)	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	



gsoap	x86_64		2.7.16-3.el6
epel	198 k		
lcas	x86_64		1.3.18-2.el6
UMD-2-base		23 k	
lcas-lcmapi-gt4-interface	x86_64		0.2.4-2.el6
IGE.security-integration.sl6.x86_64		19 k	
lcmapi	x86_64		1.5.5-1.el6
UMD-2-base		77 k	
lcmapi-plugins-jobrep	x86_64		1.5.0-2.el6
IGE.security-integration.sl6.x86_64		71 k	
lcmapi-plugins-scas-client	x86_64		0.3.4-2.el6
IGE.security-integration.sl6.x86_64		36 k	
unixODBC	x86_64		2.2.14-11.el6
sl	378 k		
xacml	x86_64		1.1.2-1.el6
IGE.security-integration.sl6.x86_64		389 k	
xacml-devel	x86_64		1.1.2-1.el6
IGE.security-integration.sl6.x86_64		11 k	

### Transaction Summary

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}}}

== 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)
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

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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

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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...

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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:**