

# Quality Criteria Verification Report

<b>Product</b>	<i>QCG.qcg-comp.sl5.x86_64</i>	<b>Release</b>	<i>3.2.0</i>
<b>Software Provider</b>	<i>www.qoscosgrid.org</i>	<b>RT Ticket</b>	<i># 6443</i>
<b>Provider contact</b>	<i>Mariusz Mamoński &lt;mamonski@man.poznan.pl&gt;</i>		
<b>Verifier</b>	<i>Franciszek Klajn &lt;franciszek.klajn@pwr.wroc.pl&gt;</i>		
<b>Hours worked</b>	<i>2 hours</i>	<b>Date</b>	<i>29.11.2013</i>
<b>Status</b>	<b>Accepted</b>		

## Summary

*Verification of this minor update was done by installing the product and checking the basic functionality.*

## Related tickets

## Documentation Criteria

<b>Document</b>	<b>Link</b>
Release notes	<i><a href="http://www.qoscosgrid.org/trac/qcg-notification/export/HEAD/tags/current/RELEASE_NOTES#1">http://www.qoscosgrid.org/trac/qcg-notification/export/HEAD/tags/current/RELEASE_NOTES#1</a></i>
User Documentation	<i>N/A</i>
API Documentation	<i>N/A</i>
Admin Documentation	<i><a href="https://www.qoscosgrid.org/trac/qcg-notification/wiki/technicalGuideAndManual">https://www.qoscosgrid.org/trac/qcg-notification/wiki/technicalGuideAndManual</a></i>
Software License	<i><a href="http://www.qoscosgrid.org/trac/qcg-notification/wiki/license">http://www.qoscosgrid.org/trac/qcg-notification/wiki/license</a></i>

## Generic Criteria

<b>Criteria</b>	<b>Status<sup>1</sup></b>	<b>Additional Comments</b>
Binary Distribution	<b>OK</b>	
Upgrade	NT	
X.509 Certificate support	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
SHA-2 Certificates Support	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
RFC Proxy support	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
ARGUS Integration	NA	
World Writable Files	<b>OK</b>	

<sup>1</sup>**OK**, **WARN**, **FAIL**, NA (Not Applicable) or NT (Not Tested)

Passwords in world readable files	<b>OK</b>	
GlueSchema 1.3 Support	NA	The QCG middleware does not use BDII.
GlueSchema 2.0 Support	NA	The QCG middleware does not use BDII.
Middleware Version Information	NA	The QCG middleware does not use BDII.
Service Probes	<b>OK</b>	<a href="https://ngi-mon.grid.cyf-kr.edu.pl/nagios/cgi-bin/status.cgi?host=qcg.wcss.pl">https://ngi-mon.grid.cyf-kr.edu.pl/nagios/cgi-bin/status.cgi?host=qcg.wcss.pl</a>
Accounting Records	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1907">https://documents.egi.eu/public/ShowDocument?docid=1907</a>
Bug Tracking System	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>

## Specific QC

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### Basic Functionality Test

Criteria	Status <sup>2</sup>	Additional Comments
Job Execution Interface	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Simple Job	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Simple Job with inputoutput files	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Cancel Job	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Simple parallel job submission	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Single machine parallel job submission	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Fine grained mapping parallel job submission	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Precompiled MPI job Execution	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
MPI job Execution from source.	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
Precompiled OpenMP job Execution	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>
OpenMP job Execution from source	NT	<a href="https://documents.egi.eu/public/ShowDocument?docid=1876">https://documents.egi.eu/public/ShowDocument?docid=1876</a>

### New Features/Fixed Bugs

<sup>2</sup>**OK**, **WARN**, **FAIL**, NA (Not Applicable) or NT (Not Tested)





```

=====
====
Package           Arch           Version
Repository         Size
=====
=====
=====

```

```

====
Installing:
postgresql-odbc      x86_64      08.01.0200-3.1
slc5-os              201 k
unixODBC             i386        2.2.11-10.el5
slc5-os              290 k
unixODBC             x86_64      2.2.11-10.el5
slc5-os              291 k

```

*Transaction Summary*

```

=====
=====
=====
=====
====

```

```

Install    3 Package(s)
Upgrade    0 Package(s)

```

```

Total download size: 782 k
Is this ok [y/N]: y
Downloading Packages:
(1/3): postgresql-odbc-08.01.0200-3.1.x86_64.rpm
| 201 kB  00:00
(2/3): unixODBC-2.2.11-10.el5.i386.rpm
| 290 kB  00:00
(3/3): unixODBC-2.2.11-10.el5.x86_64.rpm
| 291 kB  00:00

```

```

-----
Total                                                    760
kB/s | 782 kB  00:01

```

```

Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing   : postgresql-odbc
1/3
  Installing   : unixODBC
2/3
  Installing   : unixODBC
3/3

```

*Installed:*



<i>qcg-comp-schemas</i>	<i>x86_64</i>	<i>3.2.0-16</i>	
<i>QCG.qcg-comp.sl5.x86_64</i>	<i>20 k</i>		
<i>qcg-core</i>	<i>x86_64</i>	<i>3.2.0-3</i>	<i>QCG.qcg-</i>
<i>comp.sl5.x86_64</i>	<i>557 k</i>		
<i>qcg-libxml2</i>	<i>x86_64</i>	<i>2.9.1-1</i>	<i>QCG.qcg-</i>
<i>comp.sl5.x86_64</i>	<i>1.5 M</i>		

*Transaction Summary*

```
=====
=====
=====
=====
```

*Install* 6 *Package(s)*  
*Upgrade* 0 *Package(s)*

*Total download size: 6.0 M*

*Is this ok [y/N]: y*

*Downloading Packages:*

```
(1/6): qcg-comp-logrotate-3.2.0-16.x86_64.rpm
| 2.7 kB 00:00
(2/6): qcg-comp-schemas-3.2.0-16.x86_64.rpm
| 20 kB 00:00
(3/6): qcg-comp-client-3.2.0-16.x86_64.rpm
| 428 kB 00:00
(4/6): qcg-core-3.2.0-3.x86_64.rpm
| 557 kB 00:01
(5/6): qcg-libxml2-2.9.1-1.x86_64.rpm
| 1.5 MB 00:01
(6/6): qcg-comp-3.2.0-16.x86_64.rpm
| 3.6 MB 00:03
```

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*Total* *727*

*kB/s | 6.0 MB 00:08*

*Running rpm\_check\_debug*

*Running Transaction Test*

*Finished Transaction Test*

*Transaction Test Succeeded*

*Running Transaction*

*Installing : qcg-libxml2*

*1/6*

*Installing : qcg-core*

*2/6*

*Installing : qcg-comp-schemas*

*3/6*

*Installing : qcg-comp*

*4/6*

*Run "/sbin/service qcg-compd start" to start qcg-compd service.*

*IMPORTANT: You must first configure the QCG Computing database prior to*

*starting the service. You can either use the /usr/share/qcg-comp/tools/qcg-comp-install.sh script or create it manually using the QCG Computing documentation available at <http://www.qoscosgrid.org/trac/qcg-computing/wiki/InstallingUsingRPMS> as the reference.*

*Installing : qcg-comp-logrotate*

*5/6*

*Installing : qcg-comp-client*

*6/6*

*Installed:*

*qcg-comp.x86\_64 0:3.2.0-16 qcg-comp-client.x86\_64 0:3.2.0-16*

*qcg-comp-logrotate.x86\_64 0:3.2.0-16*

*Dependency Installed:*

*qcg-comp-schemas.x86\_64 0:3.2.0-16 qcg-core.x86\_64 0:3.2.0-3*

*qcg-libxml2.x86\_64 0:2.9.1-1*

*Complete!*

*[root@qcg ~]# /usr/share/qcg-comp/tools/qcg-comp-install.sh*

*Welcome to qcg-comp installation script!*

*This script will guide you through process of configuring proper environment for running the QCG Computing service. You have to answer few questions regarding parameters of your database. If you are not sure just press Enter and use the default values.*

*Use local PostgreSQL server? (y/n) [y]: y*

*Database [qcg-comp]:*

*User [qcg-comp]:*

*Password [\*\*\*\*\*]:*

*Create database? (y/n) [y]: y*

*Create user? (y/n) [y]: y*

*Checking for system user qcg-comp...OK*

*Checking whether PostgreSQL server is installed...OK*

*Checking whether PostgreSQL server is running...*

*PostgreSQL server is not running. Start now? (y/n) [y]: y*

*Starting PostgreSQL server...OK*

*Performing installation*

*\* Creating user qcg-comp...OK*

*\* Creating database qcg-comp...OK*

*\* Creating database schema...OK*

*\* Checking for ODBC data source qcg-comp...OK*

*Remember to add appropriate entry to /var/lib/pgsql/data/pg\_hba.conf (as the first rule!) to allow user qcg-comp to access database qcg-comp. For instance:*



```
host qcg-comp qcg-comp 127.0.0.1/32 md5
```

and reload Postgres server.

```
[root@qcg ~]# vi /var/lib/pgsql/data/pg_hba.conf
[root@qcg ~]# /etc/init.d/postgresql reload
[root@qcg ~]# echo "'/C=PL/O=GRID/O=WCSS/CN=Franciszek Klajn" franek' >
/etc/grid-security/grid-mapfile
[root@qcg ~]# vi /etc/qcg/qcg-comp/qcg-compd.xml
[root@qcg ~]# cat /etc/qcg/qcg-comp/application_mapfile
# ApplicationName ApplicationVersion Executable
```

```
bash */opt/exp_soft/qcg/qcg-app-scripts/app-scripts/bash.qcg
```

```
[root@qcg ~]# /etc/init.d/qcg-compd start
Starting qcg-compd: [ OK ]
[root@qcg ~]# tail /var/log/qcg/qcg-comp/qcg-compd.log
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....qcg-comp] Setting up: ecm_gsoap
(gSOAP external communication module)
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....qcg-comp] Setting up:
atc_transport_http (Plain HTTP transport)
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....qcg-comp] Setting up: ntf_client
(QCG Notification gSOAP client module (service use only))
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....qcg-comp] Setting up:
application_mapper (JSDL Application -> HPCPA Executable mapper)
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....qcg-comp] Setting up: DRMS:
http://schemas.qoscosgrid.org/comp/2011/04/drms/Torque/Torque (3)
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....monitoring] Querying DRMS for
hosts, queues, jobs statuses (extended=0)
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....monitoring] Active jobs count = 0
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....monitoring] Jobs selected for
extended query: []
I #71d6 [ 0.39] * pbs_disconnect(1)
INF Nov 29 07:57:48 29142 0x2ba8813a2160 [.....monitoring] Exited session process
after 0 seconds
[root@qcg ~]# vi /etc/qcg/qcg-comp/qcg-comp.xml
[root@qcg ~]# su - franek
[franek@qcg ~]$ grid-proxy-init -rfc
Your identity: /C=PL/O=GRID/O=WCSS/CN=Franciszek Klajn
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Your proxy is valid until: Fri Nov 29 19:59:02 2013
[franek@qcg ~]$ qcg-comp -G | xmllint --format -
<?xml version="1.0"?>
<bes-factory:FactoryResourceAttributesDocument xmlns:bes-
factory="http://schemas.ggf.org/bes/2006/08/bes-factory">
  <bes-factory:IsAcceptingNewActivities>true</bes-factory:IsAcceptingNewActivities>
  <bes-factory:CommonName>qcg.wcss.pl</bes-factory:CommonName>
  <bes-factory:LongDescription>WCSS-PPS QCG</bes-factory:LongDescription>
  <bes-factory:TotalNumberOfActivities>0</bes-factory:TotalNumberOfActivities>
```

```

    <bes-factory:TotalNumberOfContainedResources>2</bes-
factory:TotalNumberOfContainedResources>
    <bes-factory:ContainedResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:type="bes-factory:BasicResourceAttributesDocumentType">
      <bes-factory:ResourceName>wn01.local</bes-factory:ResourceName>
      <bes-factory:CPUArchitecture>
        <jsdl:CPUArchitectureName
xmlns:jsdl="http://schemas.ggf.org/jsdl/2005/11/jsdl">x86_64</jsdl:CPUArchitecture
Name>
        </bes-factory:CPUArchitecture>
      <bes-factory:CPUCount>2</bes-factory:CPUCount>
      <bes-factory:PhysicalMemory>513470464</bes-factory:PhysicalMemory>
      <bes-factory:VirtualMemory>1040179200</bes-factory:VirtualMemory>
      <qcm:Utilization
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">0</qcm:Utiliz
ation>
      <qcm:Attributes
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">lcp</qcm:
Attributes>
      <qcm:State
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">up</qcm:State
>
      <qcm:UsedCPUCount
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">0</qcm:Used
CPUCount>
    </bes-factory:ContainedResource>
    <bes-factory:ContainedResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:type="bes-factory:BasicResourceAttributesDocumentType">
      <bes-factory:ResourceName>wn02.local</bes-factory:ResourceName>
      <bes-factory:CPUArchitecture>
        <jsdl:CPUArchitectureName
xmlns:jsdl="http://schemas.ggf.org/jsdl/2005/11/jsdl">x86_64</jsdl:CPUArchitecture
Name>
        </bes-factory:CPUArchitecture>
      <bes-factory:CPUCount>2</bes-factory:CPUCount>
      <bes-factory:PhysicalMemory>513470464</bes-factory:PhysicalMemory>
      <bes-factory:VirtualMemory>1040179200</bes-factory:VirtualMemory>
      <qcm:Utilization
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">0</qcm:Utiliz
ation>
      <qcm:Attributes
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">lcp</qcm:
Attributes>
      <qcm:State
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">up</qcm:State
>
      <qcm:UsedCPUCount
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">0</qcm:Used
CPUCount>
    </bes-factory:ContainedResource>

```

```

<bes-
factory:NamingProfile>http://schemas.ggf.org/bes/2006/08/bes/naming/BasicWSAddre
ssing</bes-factory:NamingProfile>
<bes-
factory:BESExtension>http://schemas.ogf.org/hpcp/2007/01/bp/BasicFilter</bes-
factory:BESExtension>
<bes-factory:BESExtension>http://schemas.qoscosgrid.org/comp/2011/04</bes-
factory:BESExtension>
<bes-
factory:LocalResourceManagerType>http://schemas.qoscosgrid.org/comp/2011/04/drm
s/Torque/Torque</bes-factory:LocalResourceManagerType>
<qcf:AuthorizedUsers
xmlns:qcf="http://schemas.qoscosgrid.org/comp/2011/04/factory">
<qcf:Subject>/C=PL/O=GRID/O=WCSS/CN=Franciszek Klajn</qcf:Subject>
</qcf:AuthorizedUsers>
<qcf:Applications xmlns:qcf="http://schemas.qoscosgrid.org/comp/2011/04/factory">
<qcf:Application name="bash"/>
</qcf:Applications>
<qcf:Modules xmlns:qcf="http://schemas.qoscosgrid.org/comp/2011/04/factory"/>
<qcm:ClusterMonitoring
xmlns:qcm="http://schemas.qoscosgrid.org/comp/2011/04/monitoring">
<qcm:Queues>
<qcm:Queue enabled="true" name="dteam" runningJobs="0" started="true"
waitingJobs="0" walltime="PT72H0M0S" qcm:enabled="true" qcm:name="dteam"
qcm:runningJobs="0" qcm:started="true" qcm:waitingJobs="0"
qcm:walltime="PT72H0M0S"/>
<qcm:Queue enabled="true" name="ops" runningJobs="0" started="true"
waitingJobs="0" walltime="PT72H0M0S" qcm:enabled="true" qcm:name="ops"
qcm:runningJobs="0" qcm:started="true" qcm:waitingJobs="0"
qcm:walltime="PT72H0M0S"/>
<qcm:Queue enabled="true" name="normal" runningJobs="0" started="true"
waitingJobs="0" walltime="PT0H0M0S" qcm:enabled="true" qcm:name="normal"
qcm:runningJobs="0" qcm:started="true" qcm:waitingJobs="0"
qcm:walltime="PT0H0M0S"/>
</qcm:Queues>
<qcm:Jobs/>
<qcm:Reservations/>
</qcm:ClusterMonitoring>
<qcf:Timestamp
xmlns:qcf="http://schemas.qoscosgrid.org/comp/2011/04/factory">2013-11-
29T06:57:48Z</qcf:Timestamp>
<qcf:VersionString
xmlns:qcf="http://schemas.qoscosgrid.org/comp/2011/04/factory">3.2.0</qcf:VersionS
tring>
<qcf:NotificationProviderURL
xmlns:qcf="http://schemas.qoscosgrid.org/comp/2011/04/factory">http://qcg-
ntf.wcss.pl:19001/</qcf:NotificationProviderURL>
</bes-factory:FactoryResourceAttributesDocument>
[franek@qcg ~]$ grid-proxy-init -rfc
Your identity: /C=PL/O=GRID/O=WCSS/CN=Franciszek Klajn

```

*Enter GRID pass phrase for this identity:*

*Creating proxy ..... Done*

*Your proxy is valid until: Sat Nov 30 02:15:43 2013*

*[franek@qcg ~]\$ qcg-comp -c -J /usr/share/qcg-comp/doc/examples/jsdl/date.xml*

*Activity Id: 6d353c5f-8454-42e7-a639-12c85d40bfa1*

*[franek@qcg ~]\$ qcg-comp -s -a 6d353c5f-8454-42e7-a639-12c85d40bfa1*

*status = Finished (exit status = 0)*

*[franek@qcg ~]\$ qcg-comp -o -J /usr/share/qcg-comp/doc/examples/jsdl/date.xml*

*File /tmp/date.staged.out staged out.*

*All files staged out.*

*[franek@qcg ~]\$ cat /tmp/date.staged.out*

*Fri Nov 29 03:16:01 HST 2013*