

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

Name of the component	QCG-Notification		
Release	<b>qcg.qcg-ntf.sl5.x86_64-3.0.3</b>	RT Ticket	#5839
Software Provider			
Release Contact			
Validator	Name: Franciszek Klajn	E-Mail franciszek.klajn@pwr.wroc.pl	
V. Hours Worked	2		
Component status	<b>Accepted</b>	Date	01.08.2013
Verification start date	01.08.2013	Verification end date	01.08.2013

**Summary:**

**The component is ready for production. Installation process was successful, test jobs was run without problems. Support team responded to the test ticket.**

**GGUS Tickets:  
#96315**

**Summary of Quality Criteria verification:**

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
<b>TP</b>	5	0		5
<b>VLD</b>	13	5		18
	Specific Quality Criteria			
<b>TP</b>	3	0		3
<b>VLD</b>	2	0		2

## Quality Criteria verification cheatsheet:

Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	1. Comments
<b>DOCUMENTATION QC</b>			
GENERIC_DOC_1 (Functional Description)	Optional Y	VLD	<a href="https://www.qoscosgrid.org/trac/qcg-notification/wiki">https://www.qoscosgrid.org/trac/qcg-notification/wiki</a>
GENERIC_DOC_2 (Release Notes)	Y	VLD	<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>
GENERIC_DOC_3 (User Documentation)	Optional N	VLD	
GENERIC_DOC_4 (Online help (man pages))	Optional N	VLD	
GENERIC_DOC_5 (API Documentation)	Optional N	VLD	
GENERIC_DOC_6 (Administrator Documentation)	Optional Y	VLD	<a href="https://www.qoscosgrid.org/trac/qcg-notification/wiki/technicalGuideAndManual">https://www.qoscosgrid.org/trac/qcg-notification/wiki/technicalGuideAndManual</a>
GENERIC_DOC_7 (Service Reference Card)	Optional N	VLD	
GENERIC_DOC_8 (Software License)	Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg-notification/wiki/license">http://www.qoscosgrid.org/trac/qcg-notification/wiki/license</a>
GENERIC_DOC_9 (Release changes testing)	Optional N	VLD	
<b>SOFTWARE DISTRIBUTION QC</b>			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg-notification/wiki/InstallingFromSources">http://www.qoscosgrid.org/trac/qcg-notification/wiki/InstallingFromSources</a>
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
<b>SOFTWARE FEATURES QC</b>			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	TP	First release in UMD
GENERIC_SOFT_2 (New features testing)	Y	TP	First release in UMD
<b>SERVICE CRITERIA QC</b>			
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	
GENERIC_SERVICE_2 (Log Files)	Y	VLD	
GENERIC_SERVICE_3 (Service Reliability)	Optional Y	TP	
GENERIC_SERVICE_4 (Service Robustness)	Optional Y	TP	
GENERIC_SERVICE_6 (Default Password Configuration)	Y	VLD	The only password - for database is set during installation

GENERIC_SERVICE_7 (Default Configuration)	Y	VLD	
<b>SECURITY QC</b>			
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_3 (Passwords in world readable files)	Y	VLD	
<b>MISCELLANEOUS QC</b>			
GENERIC_MISC_1 (Bug Tracking System)	Y	VLD	<a href="https://ggus.eu/ws/ticket_info.php?ticket=96315">https://ggus.eu/ws/ticket_info.php?ticket=96315</a>
<b>AUTHENTICATION QC</b>			
AUTHN_CRED_1 (X.509 Certificate support)	Y	VLD	
AUTHN_CRED_2 (SHA2 Certificate support)	Optional	TP	The same core as QCG-Computing (where SHA2 certificate was tested)
AUTHN_CRED_3 (RFC Proxy support)	Optional	VLD	
AUTHN_PROTO_1 (TLSSSLv3 Support)	Y	TP	
<b>MESSAGING QC</b>			
MSG_IFACE_2 (Notification Interface)	Y	TP	<a href="https://www.qoscosgrid.org/trac/qcg-notification/wiki/technicalGuideAndManual">https://www.qoscosgrid.org/trac/qcg-notification/wiki/technicalGuideAndManual</a>

### Validator comments:

By default Notification is configured to work without authorization (which may be reasonable if it works with QCG-Computing on the same machine). But configuration change to have X509 authentication is quite easy with provided documentation.

```
[root@virgo yum.repos.d]# curl -O http://admin-repo.egi.eu/sw/unverified/umd-3.qcg.qcg-ntf.s15.x86_64/3/0/3/repofiles/QCG.qcg-ntf.s15.x86_64.repo
% Total    % Received % Xferd Average Speed   Time    Time     Time
Current

           Dload  Upload  Total  Spent    Left  Speed
100  340  100  340    0    0  1894      0  --:--:--  --:--:--  --:--:--    0
[root@virgo yum.repos.d]# cd
[root@virgo ~]# yum install qcg-ntf
Loaded plugins: changelog, kernel-module, protectbase, security, tsflags,
versionlock
QCG.qcg-ntf.s15.x86_64
| 1.9 kB    00:00
QCG.qcg-ntf.s15.x86_64/primary_db
| 9.4 kB    00:00
epel
| 3.6 kB    00:00
slc5-extras
| 2.7 kB    00:00
slc5-os
| 2.1 kB    00:00
slc5-updates
| 3.0 kB    00:00
260 packages excluded due to repository protections
Reading version lock configuration
Setting up Install Process
Resolving Dependencies
--> Running transaction check
```

```
---> Package qcg-ntf.x86_64 0:3.0.3-20 set to be updated
--> Processing Dependency: qcg-core >= 3.0.3 for package: qcg-ntf
--> Processing Dependency: postgresql-odbc >= 08.01.0200-3.1 for package: qcg-ntf
--> Processing Dependency: libglobus_gssapi_gsi.so.4(globus_gssapi_gsi) (64bit) for package: qcg-ntf
--> Processing Dependency: libqcg-core.so.3() (64bit) for package: qcg-ntf
--> Processing Dependency: libglobus_openssl.so.0() (64bit) for package: qcg-ntf
--> Processing Dependency: libglobus_gssapi_gsi.so.4() (64bit) for package: qcg-ntf
--> Processing Dependency: libodbc.so.1() (64bit) for package: qcg-ntf
--> Processing Dependency: libvomsapi.so.1() (64bit) for package: qcg-ntf
--> Running transaction check
---> Package globus-gssapi-gsi.x86_64 0:10.7-1.el5 set to be updated
--> Processing Dependency: globus-gsi-sysconfig >= 5 for package: globus-gssapi-gsi
--> Processing Dependency: globus-gsi-proxy-core >= 6 for package: globus-gssapi-gsi
--> Processing Dependency: globus-gsi-openssl-error >= 2 for package: globus-gssapi-gsi
--> Processing Dependency: globus-gsi-credential >= 5 for package: globus-gssapi-gsi
--> Processing Dependency: globus-gsi-cert-utils >= 8 for package: globus-gssapi-gsi
--> Processing Dependency: globus-gsi-callback >= 4 for package: globus-gssapi-gsi
--> Processing Dependency: globus-common >= 14 for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_common.so.0(GLOBUS_COMMON_14) (64bit) for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_openssl_error.so.0() (64bit) for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_gsi_sysconfig.so.1() (64bit) for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_gsi_proxy_core.so.0() (64bit) for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_gsi_credential.so.1() (64bit) for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_gsi_cert_utils.so.0() (64bit) for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_gsi_callback.so.0() (64bit) for package: globus-gssapi-gsi
--> Processing Dependency: libglobus_common.so.0() (64bit) for package: globus-gssapi-gsi
---> Package globus-openssl-module.x86_64 0:3.2-1.el5 set to be updated
--> Processing Dependency: globus-gsi-proxy-ssl >= 4 for package: globus-openssl-module
--> Processing Dependency: libglobus_proxy_ssl.so.1() (64bit) for package: globus-openssl-module
---> Package postgresql-odbc.x86_64 0:08.01.0200-3.1 set to be updated
--> Processing Dependency: postgresql-libs >= 8.0 for package: postgresql-odbc
--> Processing Dependency: libpq.so.4() (64bit) for package: postgresql-odbc
---> Package qcg-core.x86_64 0:3.0.3-5 set to be updated
--> Processing Dependency: qcg-libxml2 >= 2.6.27 for package: qcg-core
---> Package unixODBC-libs.x86_64 0:2.2.11-10.el5 set to be updated
---> Package voms.x86_64 0:2.0.10-1.el5 set to be updated
--> Running transaction check
---> Package globus-common.x86_64 0:14.9-1.el5 set to be updated
--> Processing Dependency: libltdl.so.3() (64bit) for package: globus-common
---> Package globus-gsi-callback.x86_64 0:4.4-1.el5 set to be updated
---> Package globus-gsi-cert-utils.x86_64 0:8.3-1.el5 set to be updated
---> Package globus-gsi-credential.x86_64 0:5.3-1.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 0:6.2-1.el5 set to be updated
---> Package globus-gsi-proxy-ssl.x86_64 0:4.1-2.el5 set to be updated
---> Package globus-gsi-sysconfig.x86_64 0:5.3-1.el5 set to be updated
---> Package postgresql-libs.x86_64 0:8.1.23-6.el5_8 set to be updated
---> Package qcg-libxml2.x86_64 0:2.6.27-2 set to be updated
```

```

--> Running transaction check
---> 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	Version	Repository	Arch	Size
=====				
===				
Installing:				
qcg-ntf	3.0.3-20	QCG.qcg-ntf.s15.x86_64	x86_64	1.6 M
Installing for dependencies:				
globus-common	1.el5	epel	x86_64	14.9-132 k
globus-gsi-callback	1.el5	epel	x86_64	4.4-43 k
globus-gsi-cert-utils	1.el5	epel	x86_64	8.3-20 k
globus-gsi-credential	1.el5	epel	x86_64	5.3-36 k
globus-gsi-openssl-error	2.el5	epel	x86_64	2.1-16 k
globus-gsi-proxy-core	1.el5	epel	x86_64	6.2-37 k
globus-gsi-proxy-ssl	2.el5	epel	x86_64	4.1-18 k
globus-gsi-sysconfig	1.el5	epel	x86_64	5.3-31 k
globus-gssapi-gsi	1.el5	epel	x86_64	10.7-62 k
globus-openssl-module	1.el5	epel	x86_64	3.2-14 k
libtool-ltdl	1.5.22-7.el5_4	slc5-os	x86_64	38 k
postgresql-libs	8.1.23-6.el5_8	slc5-os	x86_64	197 k
postgresql-odbc	08.01.0200-3.1	slc5-os	x86_64	201 k
qcg-core	3.0.3-5	QCG.qcg-ntf.s15.x86_64	x86_64	557 k
qcg-libxml2	2.6.27-2	QCG.qcg-ntf.s15.x86_64	x86_64	1.4 M

```
  unixODBC-libs                x86_64
2.2.11-10.el5                  slc5-os
554 k
  voms                          x86_64
2.0.10-1.el5                   epel
174 k
```

Transaction Summary

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

```
Install      18 Package(s)
Upgrade      0 Package(s)
```

Total download size: 5.1 M

Is this ok [y/N]: y

Downloading Packages:

```
(1/18): globus-openssl-module-3.2-1.el5.x86_64.rpm
| 14 kB    00:00
(2/18): globus-gsi-openssl-error-2.1-2.el5.x86_64.rpm
| 16 kB    00:00
(3/18): globus-gsi-proxy-ssl-4.1-2.el5.x86_64.rpm
| 18 kB    00:00
(4/18): globus-gsi-cert-utils-8.3-1.el5.x86_64.rpm
| 20 kB    00:00
(5/18): globus-gsi-sysconfig-5.3-1.el5.x86_64.rpm
| 31 kB    00:00
(6/18): globus-gsi-credential-5.3-1.el5.x86_64.rpm
| 36 kB    00:00
(7/18): globus-gsi-proxy-core-6.2-1.el5.x86_64.rpm
| 37 kB    00:00
(8/18): libtool-ltdl-1.5.22-7.el5_4.x86_64.rpm
| 38 kB    00:00
(9/18): globus-gsi-callback-4.4-1.el5.x86_64.rpm
| 43 kB    00:00
(10/18): globus-gssapi-gsi-10.7-1.el5.x86_64.rpm
| 62 kB    00:00
(11/18): globus-common-14.9-1.el5.x86_64.rpm
| 132 kB   00:00
(12/18): voms-2.0.10-1.el5.x86_64.rpm
| 174 kB   00:00
(13/18): postgresql-libs-8.1.23-6.el5_8.x86_64.rpm
| 197 kB   00:00
(14/18): postgresql-odbc-08.01.0200-3.1.x86_64.rpm
| 201 kB   00:00
(15/18): unixODBC-libs-2.2.11-10.el5.x86_64.rpm
| 554 kB   00:00
(16/18): qcg-core-3.0.3-5.x86_64.rpm
| 557 kB   00:00
(17/18): qcg-libxml2-2.6.27-2.x86_64.rpm
| 1.4 MB   00:01
(18/18): qcg-ntf-3.0.3-20.x86_64.rpm
| 1.6 MB   00:01
```

```
-----
-----
---
```

Total

757 kB/s | 5.1 MB 00:06

warning: rpmts\_HdrFromFdno: Header V4 DSA signature: NOKEY, key ID 217521f6  
epel/gpgkey

| 1.7 kB 00:00

Importing GPG key 0x217521F6 "Fedora EPEL <epel@fedoraproject.org>" from  
/etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL

Is this ok [y/N]: y

warning: rpmts\_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID ba42f9ba  
QCG.qcg-ntf.sl5.x86\_64/gpgkey

| 1.7 kB 00:00

Importing GPG key 0xBA42F9BA "Bartosz Bosak (QCG) <bbosak@man.poznan.pl>" from  
<http://www.qoscosgrid.org/qcg-packages/sl5/RPM-GPG-KEY-QCG>

Is this ok [y/N]: y

Running rpm\_check\_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

```
Installing      : unixODBC-libs
1/18
Installing      : qcg-libxml2
2/18
Installing      : voms
3/18
Installing      : libtool-ltdl
4/18
Installing      : globus-common
5/18
Installing      : globus-gsi-openssl-error
6/18
Installing      : globus-gsi-proxy-ssl
7/18
Installing      : globus-openssl-module
8/18
Installing      : globus-gsi-cert-utils
9/18
Installing      : globus-gsi-sysconfig
10/18
Installing      : globus-gsi-callback
11/18
Installing      : globus-gsi-credential
12/18
Installing      : globus-gsi-proxy-core
13/18
Installing      : globus-gssapi-gsi
14/18
Installing      : qcg-core
15/18
Installing      : postgresql-libs
16/18
Installing      : postgresql-odbc
17/18
Installing      : qcg-ntf
18/18
```

Run `"/sbin/service qcg-ntfd start"` to start qcg-ntfd service.

IMPORTANT: By default it is required to configure a database to utilize more sophisticated notification capabilities. The simplest way to do this is to execute a script located in

`/usr/share/qcg-ntf/tools/qcg-ntf-install.sh`.

For more information see a documentation in `/usr/share/qcg-ntf/doc` directory.

Installed:

`qcg-ntf.x86_64 0:3.0.3-20`

Dependency Installed:

```
globus-common.x86_64 0:14.9-1.e15          globus-gsi-
callback.x86_64 0:4.4-1.e15                globus-gsi-cert-utils.x86_64 0:8.3-
1.e15
globus-gsi-credential.x86_64 0:5.3-1.e15    globus-gsi-openssl-
error.x86_64 0:2.1-2.e15                    globus-gsi-proxy-core.x86_64 0:6.2-1.e15
globus-gsi-proxy-ssl.x86_64 0:4.1-2.e15     globus-gsi-
sysconfig.x86_64 0:5.3-1.e15                globus-gssapi-gsi.x86_64 0:10.7-
1.e15
globus-openssl-module.x86_64 0:3.2-1.e15    libtool-ltdl.x86_64
0:1.5.22-7.e15_4                            postgresql-libs.x86_64 0:8.1.23-6.e15_8
```

```
postgresql-odbc.x86_64 0:08.01.0200-3.1          qcg-core.x86_64 0:3.0.3-5
qcg-libxml2.x86_64 0:2.6.27-2
unixODBC-libs.x86_64 0:2.2.11-10.e15           voms.x86_64 0:2.0.10-
1.e15
```

Complete!

```
[root@virgo ~]# cat > /etc/yum.repos.d/egi-trustanchors.repo << EOF
```

```
> [EGI-trustanchors]
> name=EGI-trustanchors
> baseurl=http://repository.egi.eu/sw/production/cas/1/current/
> gpgkey=http://repository.egi.eu/sw/production/cas/1/GPG-KEY-EUGridPMA-RPM-3
> gpgcheck=1
> enabled=1
> EOF
```

```
[root@virgo ~]# yum install ca-policy-egi-core
```

```
Loaded plugins: changelog, kernel-module, protectbase, security, tsflags,
versionlock
```

```
EGI-trustanchors
| 951 B      00:00
EGI-trustanchors/primary
| 31 kB     00:00
```

```
EGI-trustanchors
213/213
```

```
260 packages excluded due to repository protections
```

```
Reading version lock configuration
```

```
Setting up Install Process
```

```
Resolving Dependencies
```

```
--> Running transaction check
```

```
---> Package ca-policy-egi-core.noarch 0:1.54-1 set to be updated
```

```
--> Processing Dependency: ca_TERENA-eScience-SSL-CA = 1.54 for package: ca-
policy-egi-core
```

```
--> Processing Dependency: ca_CNRS2 = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_DigiCertGridCA-1-Classic = 1.54 for package: ca-
policy-egi-core
```

```
--> Processing Dependency: ca_KEK = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_UniandesCA = 1.54 for package: ca-policy-egi-
core
```

```
--> Processing Dependency: ca_UGRID = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_UKeScienceCA-2B = 1.54 for package: ca-policy-
egi-core
```

```
--> Processing Dependency: ca_UTN-USERFirst-Hardware = 1.54 for package: ca-
policy-egi-core
```

```
--> Processing Dependency: ca_HellasGrid-CA-2006 = 1.54 for package: ca-
policy-egi-core
```

```
--> Processing Dependency: ca_NECTEC = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_QuoVadis-Root-CA1 = 1.54 for package: ca-policy-
egi-core
```

```
--> Processing Dependency: ca_pkIRISGrid = 1.54 for package: ca-policy-egi-
core
```

```
--> Processing Dependency: ca_CERN-GridCA = 1.54 for package: ca-policy-egi-
core
```

```
--> Processing Dependency: ca_MYIFAM = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_UNLPGGrid = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_SRCE = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_HIAST = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_LACGridCA = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_BalticGrid = 1.54 for package: ca-policy-egi-
core
```

```
--> Processing Dependency: ca_RomanianGRID = 1.54 for package: ca-policy-egi-
core
```

```
--> Processing Dependency: ca_AustrianGrid = 1.54 for package: ca-policy-egi-
core
```

```
--> Processing Dependency: ca_UTNAAAClient = 1.54 for package: ca-policy-egi-
core
```

```
--> Processing Dependency: ca_CERN-Root = 1.54 for package: ca-policy-egi-core
```

```
--> Processing Dependency: ca_DZeScience = 1.54 for package: ca-policy-egi-
core
```

```
core
```



--> Processing Dependency: ca\_PSC-Myproxy-CA = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_REUNA-ca = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_BrGrid = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_SiGNET-CA = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_TRGrid = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_DFN-GridGermany-Root = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_AddTrust-External-CA-Root = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_CALG = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_IGCA = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_NCSA-tfca = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_PolishGrid = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_SDG = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_IRAN-GRID = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_KISTI-2007 = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_SlovakGrid = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_SWITCHslcs2011 = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_NCSA-slcs = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_DigiCertGridTrustCA-Classic = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_MREN-CA = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_HKU = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_SEE-GRID = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_BEGrid2008 = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_GermanGrid = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_CNRS2-Grid-FR = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_DOEGrids = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_DFN-SLCS = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_RDIG = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_ULAGrid-CA-2008 = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_IUCC = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_HellasGrid-Root = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_INFN-CA-2006 = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_DigiCertGridRootCA-Root = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_IHEP-2013 = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_CERN-Root-2 = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_NICS-MyProxy = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_UKeScienceCA-2A = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_ESnet = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_SWITCHgrid-Root = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_NERSC-SLCS = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_AIST = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_ArmeSfo = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_AEGIS = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_cilogon-silver = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_JUnet-CA = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_EG-GRID = 1.54 for package: ca-policy-egi-core  
--> Processing Dependency: ca\_PK-Grid-2007 = 1.54 for package: ca-policy-egi-core

```
--> Processing Dependency: ca_CERN-TCA = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_GridCanada = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_ASGCCA-2007 = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_CyGrid = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_BG-ACAD-CA = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_MARGI = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_NCSA-mics = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_LIPCA = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_NCHC = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_CESNET-CA-Root = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_IHEP = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_MaGrid = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_NorduGrid = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_NIIF = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_PRAGMA-UCSD = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_FNAL-SLCS = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_NAREGI = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_CNIC = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_DigiCertAssuredIDRootCA-Root = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_AAACertificateServices = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_APAC = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_MD-Grid = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_NIKHEF = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_UKeScienceRoot-2007 = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_CNRS2-Projets = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_SWITCH-QuoVadis-Grid-ICA = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_UNAMgrid-ca = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_CESNET-CA-3 = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_TERENAeSciencePersonalCA = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_BYGCA = 1.54 for package: ca-policy-egi-core
--> Processing Dependency: ca_ANSPGrid = 1.54 for package: ca-policy-egi-core
--> Running transaction check
----> Package ca_AAACertificateServices.noarch 0:1.54-1 set to be updated
----> Package ca_AEGIS.noarch 0:1.54-1 set to be updated
----> Package ca_AIST.noarch 0:1.54-1 set to be updated
----> Package ca_ANSPGrid.noarch 0:1.54-1 set to be updated
----> Package ca_APAC.noarch 0:1.54-1 set to be updated
----> Package ca_ASGCCA-2007.noarch 0:1.54-1 set to be updated
----> Package ca_AddTrust-External-CA-Root.noarch 0:1.54-1 set to be updated
----> Package ca_ArmeSFo.noarch 0:1.54-1 set to be updated
----> Package ca_AustrianGrid.noarch 0:1.54-1 set to be updated
----> Package ca_BEGrid2008.noarch 0:1.54-1 set to be updated
----> Package ca_BG-ACAD-CA.noarch 0:1.54-1 set to be updated
----> Package ca_BYGCA.noarch 0:1.54-1 set to be updated
----> Package ca_BalticGrid.noarch 0:1.54-1 set to be updated
----> Package ca_BrGrid.noarch 0:1.54-1 set to be updated
----> Package ca_CALG.noarch 0:1.54-1 set to be updated
----> Package ca_CERN-GridCA.noarch 0:1.54-1 set to be updated
----> Package ca_CERN-Root.noarch 0:1.54-1 set to be updated
----> Package ca_CERN-Root-2.noarch 0:1.54-1 set to be updated
----> Package ca_CERN-TCA.noarch 0:1.54-1 set to be updated
----> Package ca_CESNET-CA-3.noarch 0:1.54-1 set to be updated
----> Package ca_CESNET-CA-Root.noarch 0:1.54-1 set to be updated
----> Package ca_CNIC.noarch 0:1.54-1 set to be updated
----> Package ca_CNRS2.noarch 0:1.54-1 set to be updated
```

----> Package ca\_CNRS2-Grid-FR.noarch 0:1.54-1 set to be updated  
----> Package ca\_CNRS2-Projets.noarch 0:1.54-1 set to be updated  
----> Package ca\_CyGrid.noarch 0:1.54-1 set to be updated  
----> Package ca\_DFN-GridGermany-Root.noarch 0:1.54-1 set to be updated  
----> Package ca\_DFN-SLCS.noarch 0:1.54-1 set to be updated  
----> Package ca\_DOEGrids.noarch 0:1.54-1 set to be updated  
----> Package ca\_DZeScience.noarch 0:1.54-1 set to be updated  
----> Package ca\_DigiCertAssuredIDRootCA-Root.noarch 0:1.54-1 set to be updated  
----> Package ca\_DigiCertGridCA-1-Classic.noarch 0:1.54-1 set to be updated  
----> Package ca\_DigiCertGridRootCA-Root.noarch 0:1.54-1 set to be updated  
----> Package ca\_DigiCertGridTrustCA-Classic.noarch 0:1.54-1 set to be updated  
----> Package ca\_EG-GRID.noarch 0:1.54-1 set to be updated  
----> Package ca\_ESnet.noarch 0:1.54-1 set to be updated  
----> Package ca\_FNAL-SLCS.noarch 0:1.54-1 set to be updated  
----> Package ca\_GermanGrid.noarch 0:1.54-1 set to be updated  
----> Package ca\_GridCanada.noarch 0:1.54-1 set to be updated  
----> Package ca\_HIAST.noarch 0:1.54-1 set to be updated  
----> Package ca\_HKU.noarch 0:1.54-1 set to be updated  
----> Package ca\_HellasGrid-CA-2006.noarch 0:1.54-1 set to be updated  
----> Package ca\_HellasGrid-Root.noarch 0:1.54-1 set to be updated  
----> Package ca\_IGCA.noarch 0:1.54-1 set to be updated  
----> Package ca\_IHEP.noarch 0:1.54-1 set to be updated  
----> Package ca\_IHEP-2013.noarch 0:1.54-1 set to be updated  
----> Package ca\_INFN-CA-2006.noarch 0:1.54-1 set to be updated  
----> Package ca\_IRAN-GRID.noarch 0:1.54-1 set to be updated  
----> Package ca\_IUCC.noarch 0:1.54-1 set to be updated  
----> Package ca\_JUnet-CA.noarch 0:1.54-1 set to be updated  
----> Package ca\_KEK.noarch 0:1.54-1 set to be updated  
----> Package ca\_KISTI-2007.noarch 0:1.54-1 set to be updated  
----> Package ca\_LACGridCA.noarch 0:1.54-1 set to be updated  
----> Package ca\_LIPCA.noarch 0:1.54-1 set to be updated  
----> Package ca\_MARGI.noarch 0:1.54-1 set to be updated  
----> Package ca\_MD-Grid.noarch 0:1.54-1 set to be updated  
----> Package ca\_MREN-CA.noarch 0:1.54-1 set to be updated  
----> Package ca\_MYIFAM.noarch 0:1.54-1 set to be updated  
----> Package ca\_MaGrid.noarch 0:1.54-1 set to be updated  
----> Package ca\_NAREGI.noarch 0:1.54-1 set to be updated  
----> Package ca\_NCHC.noarch 0:1.54-1 set to be updated  
----> Package ca\_NCSA-mics.noarch 0:1.54-1 set to be updated  
----> Package ca\_NCSA-slcs.noarch 0:1.54-1 set to be updated  
----> Package ca\_NCSA-tfca.noarch 0:1.54-1 set to be updated  
----> Package ca\_NECTEC.noarch 0:1.54-1 set to be updated  
----> Package ca\_NERSC-SLCS.noarch 0:1.54-1 set to be updated  
----> Package ca\_NICS-MyProxy.noarch 0:1.54-1 set to be updated  
----> Package ca\_NIIF.noarch 0:1.54-1 set to be updated  
----> Package ca\_NIKHEF.noarch 0:1.54-1 set to be updated  
----> Package ca\_NorduGrid.noarch 0:1.54-1 set to be updated  
----> Package ca\_PK-Grid-2007.noarch 0:1.54-1 set to be updated  
----> Package ca\_PRAGMA-UCSD.noarch 0:1.54-1 set to be updated  
----> Package ca\_PSC-Myproxy-CA.noarch 0:1.54-1 set to be updated  
----> Package ca\_PolishGrid.noarch 0:1.54-1 set to be updated  
----> Package ca\_QuoVadis-Root-CA1.noarch 0:1.54-1 set to be updated  
----> Package ca\_RDIG.noarch 0:1.54-1 set to be updated  
----> Package ca\_REUNA-ca.noarch 0:1.54-1 set to be updated  
----> Package ca\_RomanianGRID.noarch 0:1.54-1 set to be updated  
----> Package ca\_SDG.noarch 0:1.54-1 set to be updated  
----> Package ca\_SEE-GRID.noarch 0:1.54-1 set to be updated  
----> Package ca\_SRCE.noarch 0:1.54-1 set to be updated  
----> Package ca\_SWITCH-QuoVadis-Grid-ICA.noarch 0:1.54-1 set to be updated  
----> Package ca\_SWITCHgrid-Root.noarch 0:1.54-1 set to be updated  
----> Package ca\_SWITCHslcs2011.noarch 0:1.54-1 set to be updated  
----> Package ca\_SiGNET-CA.noarch 0:1.54-1 set to be updated  
----> Package ca\_SlovakGrid.noarch 0:1.54-1 set to be updated  
----> Package ca\_TERENA-eScience-SSL-CA.noarch 0:1.54-1 set to be updated  
----> Package ca\_TERENAeSciencePersonalCA.noarch 0:1.54-1 set to be updated  
----> Package ca\_TRGrid.noarch 0:1.54-1 set to be updated  
----> Package ca\_UGRID.noarch 0:1.54-1 set to be updated  
----> Package ca\_UKeScienceCA-2A.noarch 0:1.54-1 set to be updated

```

---> Package ca_UKeScienceCA-2B.noarch 0:1.54-1 set to be updated
---> Package ca_UKeScienceRoot-2007.noarch 0:1.54-1 set to be updated
---> Package ca_ULAGrid-CA-2008.noarch 0:1.54-1 set to be updated
---> Package ca_UNAMgrid-ca.noarch 0:1.54-1 set to be updated
---> Package ca_UNLPGrid.noarch 0:1.54-1 set to be updated
---> Package ca_UTN-USERFirst-Hardware.noarch 0:1.54-1 set to be updated
---> Package ca_UTNAAAClient.noarch 0:1.54-1 set to be updated
---> Package ca_UniandesCA.noarch 0:1.54-1 set to be updated
---> Package ca_cilogon-silver.noarch 0:1.54-1 set to be updated
---> Package ca_pkIRISGrid.noarch 0:1.54-1 set to be updated
--> Finished Dependency Resolution
Beginning Kernel Module Plugin
Finished Kernel Module Plugin

```

Dependencies Resolved

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```

Package Version	Repository	Arch	Size
=====			
===			
Installing:			
ca-policy-egi-core 1.54-1	EGI-trustanchors	noarch	5.4 k
Installing for dependencies:			
ca_AAACertificateServices 1.54-1	EGI-trustanchors	noarch	5.7 k
ca_AEGIS 1.54-1	EGI-trustanchors	noarch	5.3 k
ca_AIST 1.54-1	EGI-trustanchors	noarch	5.6 k
ca_ANSPGrid 1.54-1	EGI-trustanchors	noarch	5.5 k
ca_APAC 1.54-1	EGI-trustanchors	noarch	5.9 k
ca_ASGCCA-2007 1.54-1	EGI-trustanchors	noarch	5.3 k
ca_AddTrust-External-CA-Root 1.54-1	EGI-trustanchors	noarch	5.8 k
ca_ArmeSFo 1.54-1	EGI-trustanchors	noarch	5.0 k
ca_AustrianGrid 1.54-1	EGI-trustanchors	noarch	5.3 k
ca_BEGrid2008 1.54-1	EGI-trustanchors	noarch	5.1 k
ca_BG-ACAD-CA 1.54-1	EGI-trustanchors	noarch	5.2 k
ca_BYGCA 1.54-1	EGI-trustanchors	noarch	5.2 k
ca_BalticGrid 1.54-1	EGI-trustanchors	noarch	5.3 k
ca_BrGrid 1.54-1	EGI-trustanchors	noarch	5.5 k
ca_CALG 1.54-1	EGI-trustanchors	noarch	5.3 k
ca_CERN-GridCA 1.54-1	EGI-trustanchors	noarch	6.0 k
ca_CERN-Root 1.54-1	EGI-trustanchors	noarch	5.2 k
ca_CERN-Root-2 1.54-1	EGI-trustanchors	noarch	5.9 k
ca_CERN-TCA 1.54-1	EGI-trustanchors	noarch	5.2 k
ca_CESNET-CA-3 1.54-1	EGI-trustanchors	noarch	4.8 k

ca_CESNET-CA-Root		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_CNIC		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_CNRS2		noarch	
1.54-1	EGI-trustanchors		5.0 k
ca_CNRS2-Grid-FR		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_CNRS2-Projets		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_CyGrid		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_DFN-GridGermany-Root		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_DFN-SLCS		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_DOEGrids		noarch	
1.54-1	EGI-trustanchors		6.3 k
ca_DZeScience		noarch	
1.54-1	EGI-trustanchors		7.1 k
ca_DigiCertAssuredIDRootCA-Root		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_DigiCertGridCA-1-Classic		noarch	
1.54-1	EGI-trustanchors		5.7 k
ca_DigiCertGridRootCA-Root		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_DigiCertGridTrustCA-Classic		noarch	
1.54-1	EGI-trustanchors		6.0 k
ca_EG-GRID		noarch	
1.54-1	EGI-trustanchors		6.8 k
ca_ESnet		noarch	
1.54-1	EGI-trustanchors		6.1 k
ca_FNAL-SLCS		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_GermanGrid		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_GridCanada		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_HIAST		noarch	
1.54-1	EGI-trustanchors		6.7 k
ca_HKU		noarch	
1.54-1	EGI-trustanchors		5.0 k
ca_HellasGrid-CA-2006		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_HellasGrid-Root		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_IGCA		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_IHEP		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_IHEP-2013		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_INFN-CA-2006		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_IRAN-GRID		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_IUCC		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_JUnet-CA		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_KEK		noarch	
1.54-1	EGI-trustanchors		5.5 k
ca_KISTI-2007		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_LACGridCA		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_LIPCA		noarch	
1.54-1	EGI-trustanchors		5.0 k

ca_MARGI		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_MD-Grid		noarch	
1.54-1	EGI-trustanchors		5.5 k
ca_MREN-CA		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_MYIFAM		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_MaGrid		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_NAREGI		noarch	
1.54-1	EGI-trustanchors		5.5 k
ca_NCHC		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_NCSA-mics		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_NCSA-slcs		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_NCSA-tfca		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_NECTEC		noarch	
1.54-1	EGI-trustanchors		5.5 k
ca_NERSC-SLCS		noarch	
1.54-1	EGI-trustanchors		5.7 k
ca_NICS-MyProxy		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_NIIF		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_NIKHEF		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_NorduGrid		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_PK-Grid-2007		noarch	
1.54-1	EGI-trustanchors		5.7 k
ca_PRAGMA-UCSD		noarch	
1.54-1	EGI-trustanchors		5.6 k
ca_PSC-Myproxy-CA		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_PolishGrid		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_QuoVadis-Root-CA1		noarch	
1.54-1	EGI-trustanchors		5.7 k
ca_RDIG		noarch	
1.54-1	EGI-trustanchors		5.6 k
ca_REUNA-ca		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_RomanianGRID		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_SDG		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_SEE-GRID		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_SRCE		noarch	
1.54-1	EGI-trustanchors		4.9 k
ca_SWITCH-QuoVadis-Grid-ICA		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_SWITCHgrid-Root		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_SWITCHslcs2011		noarch	
1.54-1	EGI-trustanchors		4.9 k
ca_SiGNET-CA		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_SlovakGrid		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_TERENA-eScience-SSL-CA		noarch	
1.54-1	EGI-trustanchors		5.7 k
ca_TERENAeSciencePersonalCA		noarch	
1.54-1	EGI-trustanchors		5.2 k

ca_TRGrid		noarch	
1.54-1	EGI-trustanchors		5.2 k
ca_UGRID		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_UKeScienceCA-2A		noarch	
1.54-1	EGI-trustanchors		4.9 k
ca_UKeScienceCA-2B		noarch	
1.54-1	EGI-trustanchors		4.9 k
ca_UKeScienceRoot-2007		noarch	
1.54-1	EGI-trustanchors		5.5 k
ca_ULAGrid-CA-2008		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_UNAMgrid-ca		noarch	
1.54-1	EGI-trustanchors		5.5 k
ca_UNLPGrid		noarch	
1.54-1	EGI-trustanchors		5.3 k
ca_UTN-USERFirst-Hardware		noarch	
1.54-1	EGI-trustanchors		5.7 k
ca_UTNAAAClient		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_UniandesCA		noarch	
1.54-1	EGI-trustanchors		5.4 k
ca_cilogon-silver		noarch	
1.54-1	EGI-trustanchors		5.1 k
ca_pkIRISGrid		noarch	
1.54-1	EGI-trustanchors		5.5 k

#### Transaction Summary

```

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```

```

Install      102 Package(s)
Upgrade       0 Package(s)

```

Total download size: 550 k

Is this ok [y/N]: y

Downloading Packages:

```

(1/102): ca_CESNET-CA-3-1.54-1.noarch.rpm
| 4.8 kB    00:00
(2/102): ca_SWITCHslcs2011-1.54-1.noarch.rpm
| 4.9 kB    00:00
(3/102): ca_UKeScienceCA-2A-1.54-1.noarch.rpm
| 4.9 kB    00:00
(4/102): ca_UKeScienceCA-2B-1.54-1.noarch.rpm
| 4.9 kB    00:00
(5/102): ca_SRCE-1.54-1.noarch.rpm
| 4.9 kB    00:00
(6/102): ca_HKU-1.54-1.noarch.rpm
| 5.0 kB    00:00
(7/102): ca_LIPCA-1.54-1.noarch.rpm
| 5.0 kB    00:00
(8/102): ca_CNRS2-1.54-1.noarch.rpm
| 5.0 kB    00:00
(9/102): ca_ArmeSFo-1.54-1.noarch.rpm
| 5.0 kB    00:00
(10/102): ca_HellasGrid-CA-2006-1.54-1.noarch.rpm
| 5.1 kB    00:00
(11/102): ca_MREN-CA-1.54-1.noarch.rpm
| 5.1 kB    00:00
(12/102): ca_NorduGrid-1.54-1.noarch.rpm
| 5.1 kB    00:00
(13/102): ca_MARGI-1.54-1.noarch.rpm
| 5.1 kB    00:00
(14/102): ca_IGCA-1.54-1.noarch.rpm
| 5.1 kB    00:00
(15/102): ca_DFN-SLCS-1.54-1.noarch.rpm
| 5.1 kB    00:00

```

(16/102): ca\_UGRID-1.54-1.noarch.rpm  
| 5.1 kB 00:00  
(17/102): ca\_cilogon-silver-1.54-1.noarch.rpm  
| 5.1 kB 00:00  
(18/102): ca\_CyGrid-1.54-1.noarch.rpm  
| 5.1 kB 00:00  
(19/102): ca\_NCHC-1.54-1.noarch.rpm  
| 5.1 kB 00:00  
(20/102): ca\_BEGrid2008-1.54-1.noarch.rpm  
| 5.1 kB 00:00  
(21/102): ca\_UTNAAAClient-1.54-1.noarch.rpm  
| 5.1 kB 00:00  
(22/102): ca\_INFN-CA-2006-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(23/102): ca\_BG-ACAD-CA-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(24/102): ca\_SWITCH-QuoVadis-Grid-ICA-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(25/102): ca\_TRGrid-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(26/102): ca\_CERN-TCA-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(27/102): ca\_IRAN-GRID-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(28/102): ca\_CERN-Root-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(29/102): ca\_JUnet-CA-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(30/102): ca\_NIIF-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(31/102): ca\_KISTI-2007-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(32/102): ca\_IHEP-2013-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(33/102): ca\_CESNET-CA-Root-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(34/102): ca\_PolishGrid-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(35/102): ca\_NCSA-tfca-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(36/102): ca\_TERENAeSciencePersonalCA-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(37/102): ca\_BYGCA-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(38/102): ca\_MaGrid-1.54-1.noarch.rpm  
| 5.2 kB 00:00  
(39/102): ca\_NCSA-mics-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(40/102): ca\_NCSA-slcs-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(41/102): ca\_GridCanada-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(42/102): ca\_IHEP-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(43/102): ca\_CALG-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(44/102): ca\_SlovakGrid-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(45/102): ca\_CNRS2-Projets-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(46/102): ca\_NICS-MyProxy-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(47/102): ca\_ASGCCA-2007-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(48/102): ca\_AustrianGrid-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(49/102): ca\_BalticGrid-1.54-1.noarch.rpm  
| 5.3 kB 00:00



(50/102): ca\_GermanGrid-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(51/102): ca\_SDG-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(52/102): ca\_FNAL-SLCS-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(53/102): ca\_RomanianGRID-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(54/102): ca\_CNIC-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(55/102): ca\_MYIFAM-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(56/102): ca\_REUNA-ca-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(57/102): ca\_SWITChgrid-Root-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(58/102): ca\_AEGIS-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(59/102): ca\_PSC-Myproxy-CA-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(60/102): ca\_CNRS2-Grid-FR-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(61/102): ca\_UNLPGrid-1.54-1.noarch.rpm  
| 5.3 kB 00:00  
(62/102): ca\_UniandesCA-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(63/102): ca\_LACGridCA-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(64/102): ca\_HellasGrid-Root-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(65/102): ca\_NIKHEF-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(66/102): ca\_SiGNET-CA-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(67/102): ca\_DigiCertGridRootCA-Root-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(68/102): ca\_IUCC-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(69/102): ca\_ULAGrid-CA-2008-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(70/102): ca\_SEE-GRID-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(71/102): ca-policy-egi-core-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(72/102): ca\_DigiCertAssuredIDRootCA-Root-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(73/102): ca\_DFN-GridGermany-Root-1.54-1.noarch.rpm  
| 5.4 kB 00:00  
(74/102): ca\_KEK-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(75/102): ca\_BrGrid-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(76/102): ca\_UKeScienceRoot-2007-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(77/102): ca\_pkIRISGrid-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(78/102): ca\_NECTEC-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(79/102): ca\_NAREGI-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(80/102): ca\_MD-Grid-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(81/102): ca\_ANSPGrid-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(82/102): ca\_UNAMgrid-ca-1.54-1.noarch.rpm  
| 5.5 kB 00:00  
(83/102): ca\_RDIG-1.54-1.noarch.rpm  
| 5.6 kB 00:00

```
(84/102): ca_PRAGMA-UCSD-1.54-1.noarch.rpm
| 5.6 kB      00:00
(85/102): ca_AIST-1.54-1.noarch.rpm
| 5.6 kB      00:00
(86/102): ca_QuoVadis-Root-CA1-1.54-1.noarch.rpm
| 5.7 kB      00:00
(87/102): ca_DigiCertGridCA-1-Classic-1.54-1.noarch.rpm
| 5.7 kB      00:00
(88/102): ca_UTN-USERFirst-Hardware-1.54-1.noarch.rpm
| 5.7 kB      00:00
(89/102): ca_NERSC-SLCS-1.54-1.noarch.rpm
| 5.7 kB      00:00
(90/102): ca_AAACertificateServices-1.54-1.noarch.rpm
| 5.7 kB      00:00
(91/102): ca_PK-Grid-2007-1.54-1.noarch.rpm
| 5.7 kB      00:00
(92/102): ca_TERENA-eScience-SSL-CA-1.54-1.noarch.rpm
| 5.7 kB      00:00
(93/102): ca_AddTrust-External-CA-Root-1.54-1.noarch.rpm
| 5.8 kB      00:00
(94/102): ca_CERN-Root-2-1.54-1.noarch.rpm
| 5.9 kB      00:00
(95/102): ca_APAC-1.54-1.noarch.rpm
| 5.9 kB      00:00
(96/102): ca_CERN-GridCA-1.54-1.noarch.rpm
| 6.0 kB      00:00
(97/102): ca_DigiCertGridTrustCA-Classic-1.54-1.noarch.rpm
| 6.0 kB      00:00
(98/102): ca_ESnet-1.54-1.noarch.rpm
| 6.1 kB      00:00
(99/102): ca_DOEGrids-1.54-1.noarch.rpm
| 6.3 kB      00:00
(100/102): ca_HIAST-1.54-1.noarch.rpm
| 6.7 kB      00:00
(101/102): ca_EG-GRID-1.54-1.noarch.rpm
| 6.8 kB      00:00
(102/102): ca_DZeScience-1.54-1.noarch.rpm
| 7.1 kB      00:00
```

-----  
-----

---

```
Total
25 kB/s | 550 kB      00:22
warning: rpmts_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID 3cdbbc71
EGI-trustanchors/gpgkey
| 889 B      00:00
Importing GPG key 0x3CDBBC71 "EUGridPMA Distribution Signing Key 3
<info@euagridpma.org>" from http://repository.egi.eu/sw/production/cas/1/GPG-
KEY-EUGridPMA-RPM-3
Is this ok [y/N]: y
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing      : ca_UKeScienceRoot-2007
1/102
  Installing      : ca_QuoVadis-Root-CA1
2/102
  Installing      : ca_SWITCHgrid-Root
3/102
  Installing      : ca_DigiCertAssuredIDRootCA-Root
4/102
  Installing      : ca_CESNET-CA-Root
5/102
  Installing      : ca_ESnet
6/102
```

Installing : ca\_CNRS2  
7/102  
Installing : ca\_CNRS2-Projets  
8/102  
Installing : ca\_HellasGrid-Root  
9/102  
Installing : ca\_AddTrust-External-CA-Root  
10/102  
Installing : ca\_UTN-USERFirst-Hardware  
11/102  
Installing : ca\_AAACertificateServices  
12/102  
Installing : ca\_UTNAAAClient  
13/102  
Installing : ca\_CERN-Root  
14/102  
Installing : ca\_DigiCertGridRootCA-Root  
15/102  
Installing : ca\_DigiCertGridCA-1-Classic  
16/102  
Installing : ca\_CERN-TCA  
17/102  
Installing : ca\_TERENAeSciencePersonalCA  
18/102  
Installing : ca\_TERENA-eScience-SSL-CA  
19/102  
Installing : ca\_HellasGrid-CA-2006  
20/102  
Installing : ca\_CNRS2-Grid-FR  
21/102  
Installing : ca\_DOEGrids  
22/102  
Installing : ca\_CESNET-CA-3  
23/102  
Installing : ca\_DigiCertGridTrustCA-Classic  
24/102  
Installing : ca\_SWITCHslcs2011  
25/102  
Installing : ca\_SWITCH-QuoVadis-Grid-ICA  
26/102  
Installing : ca\_UKeScienceCA-2A  
27/102  
Installing : ca\_UKeScienceCA-2B  
28/102  
Installing : ca\_UNAMgrid-ca  
29/102  
Installing : ca\_SRCE  
30/102  
Installing : ca\_UniandesCA  
31/102  
Installing : ca\_BG-ACAD-CA  
32/102  
Installing : ca\_RDIG  
33/102  
Installing : ca\_cilogon-silver  
34/102  
Installing : ca\_ArmeSFO  
35/102  
Installing : ca\_EG-GRID  
36/102  
Installing : ca\_BYGCA  
37/102  
Installing : ca\_LACGridCA  
38/102  
Installing : ca\_SDG  
39/102  
Installing : ca\_PRAGMA-UCSD  
40/102

Installing : ca\_NIKHEF  
41/102  
Installing : ca\_CERN-GridCA  
42/102  
Installing : ca\_HKU  
43/102  
Installing : ca\_AustrianGrid  
44/102  
Installing : ca\_IGCA  
45/102  
Installing : ca\_GridCanada  
46/102  
Installing : ca\_CERN-Root-2  
47/102  
Installing : ca\_MaGrid  
48/102  
Installing : ca\_IRAN-GRID  
49/102  
Installing : ca\_ANSPGrid  
50/102  
Installing : ca\_NICS-MyProxy  
51/102  
Installing : ca\_NAREGI  
52/102  
Installing : ca\_RomanianGRID  
53/102  
Installing : ca\_BEGrid2008  
54/102  
Installing : ca\_CyGrid  
55/102  
Installing : ca\_ASGCCA-2007  
56/102  
Installing : ca\_MARGI  
57/102  
Installing : ca\_NERSC-SLCS  
58/102  
Installing : ca\_NCSA-tfca  
59/102  
Installing : ca\_IHEP-2013  
60/102  
Installing : ca\_SlovakGrid  
61/102  
Installing : ca\_DZeScience  
62/102  
Installing : ca\_REUNA-ca  
63/102  
Installing : ca\_NCSA-slcs  
64/102  
Installing : ca\_NECTEC  
65/102  
Installing : ca\_NCHC  
66/102  
Installing : ca\_PK-Grid-2007  
67/102  
Installing : ca\_DFN-GridGermany-Root  
68/102  
Installing : ca\_IHEP  
69/102  
Installing : ca\_MD-Grid  
70/102  
Installing : ca\_LIPCA  
71/102  
Installing : ca\_BrGrid  
72/102  
Installing : ca\_GermanGrid  
73/102  
Installing : ca\_PolishGrid  
74/102

Installing : ca\_JUnet-CA  
75/102  
Installing : ca\_BalticGrid  
76/102  
Installing : ca\_pkIRISGrid  
77/102  
Installing : ca\_IUCC  
78/102  
Installing : ca\_SiGNET-CA  
79/102  
Installing : ca\_HIAST  
80/102  
Installing : ca\_INFN-CA-2006  
81/102  
Installing : ca\_NIIF  
82/102  
Installing : ca\_APAC  
83/102  
Installing : ca\_CALG  
84/102  
Installing : ca\_PSC-Myproxy-CA  
85/102  
Installing : ca\_ULAGrid-CA-2008  
86/102  
Installing : ca\_AIST  
87/102  
Installing : ca\_AEGIS  
88/102  
Installing : ca\_NorduGrid  
89/102  
Installing : ca\_CNIC  
90/102  
Installing : ca\_UGRID  
91/102  
Installing : ca\_MREN-CA  
92/102  
Installing : ca\_MYIFAM  
93/102  
Installing : ca\_NCSA-mics  
94/102  
Installing : ca\_FNAL-SLCS  
95/102  
Installing : ca\_KISTI-2007  
96/102  
Installing : ca\_KEK  
97/102  
Installing : ca\_TRGrid  
98/102  
Installing : ca\_DFN-SLCS  
99/102  
Installing : ca\_UNLPGrid  
100/102  
Installing : ca\_SEE-GRID  
101/102  
Installing : ca-policy-egi-core  
102/102

Installed:

ca-policy-egi-core.noarch 0:1.54-1

Dependency Installed:

ca\_AAACertificateServices.noarch 0:1.54-1 ca\_AEGIS.noarch  
0:1.54-1 ca\_AIST.noarch 0:1.54-1  
ca\_ANSPGrid.noarch 0:1.54-1 ca\_APAC.noarch  
0:1.54-1 ca\_ASGCCA-2007.noarch 0:1.54-1  
ca\_AddTrust-External-CA-Root.noarch 0:1.54-1 ca\_ArmeSFo.noarch  
0:1.54-1 ca\_AustrianGrid.noarch 0:1.54-1

```

ca_BEGrid2008.noarch 0:1.54-1 ca_BG-ACAD-CA.noarch
0:1.54-1 ca_BYGCA.noarch 0:1.54-1
ca_BalticGrid.noarch 0:1.54-1 ca_BrGrid.noarch
0:1.54-1 ca_CALG.noarch 0:1.54-1
ca_CERN-GridCA.noarch 0:1.54-1 ca_CERN-Root.noarch
0:1.54-1 ca_CERN-Root-2.noarch 0:1.54-1
ca_CERN-TCA.noarch 0:1.54-1 ca_CESNET-CA-3.noarch
0:1.54-1 ca_CESNET-CA-Root.noarch 0:1.54-1
ca_CNIC.noarch 0:1.54-1 ca_CNRS2.noarch
0:1.54-1 ca_CNRS2-Grid-FR.noarch 0:1.54-1
ca_CNRS2-Projets.noarch 0:1.54-1 ca_CyGrid.noarch
0:1.54-1 ca_DFN-GridGermany-Root.noarch 0:1.54-1
ca_DFN-SLCS.noarch 0:1.54-1 ca_DOEGrids.noarch
0:1.54-1 ca_DZeScience.noarch 0:1.54-1
ca_DigiCertAssuredIDRootCA-Root.noarch 0:1.54-1 ca_DigiCertGridCA-1-
Classic.noarch 0:1.54-1 ca_DigiCertGridRootCA-Root.noarch 0:1.54-1
ca_DigiCertGridTrustCA-Classic.noarch 0:1.54-1 ca_EG-GRID.noarch
0:1.54-1 ca_ESnet.noarch 0:1.54-1
ca_FNAL-SLCS.noarch 0:1.54-1 ca_GermanGrid.noarch
0:1.54-1 ca_GridCanada.noarch 0:1.54-1
ca_HIAST.noarch 0:1.54-1 ca_HKU.noarch 0:1.54-
1 ca_HellasGrid-CA-2006.noarch 0:1.54-1
ca_HellasGrid-Root.noarch 0:1.54-1 ca_IGCA.noarch
0:1.54-1 ca_IHEP.noarch 0:1.54-1
ca_IHEP-2013.noarch 0:1.54-1 ca_INFN-CA-
2006.noarch 0:1.54-1 ca_IRAN-GRID.noarch 0:1.54-1
ca_IUCC.noarch 0:1.54-1 ca_JUnet-CA.noarch
0:1.54-1 ca_KEK.noarch 0:1.54-1
ca_KISTI-2007.noarch 0:1.54-1 ca_LACGridCA.noarch
0:1.54-1 ca_LIPCA.noarch 0:1.54-1
ca_MARGI.noarch 0:1.54-1 ca_MD-Grid.noarch
0:1.54-1 ca_MREN-CA.noarch 0:1.54-1
ca_MYIFAM.noarch 0:1.54-1 ca_MaGrid.noarch
0:1.54-1 ca_NAREGI.noarch 0:1.54-1
ca_NCHC.noarch 0:1.54-1 ca_NCSA-mics.noarch
0:1.54-1 ca_NCSA-slcs.noarch 0:1.54-1
ca_NCSA-tfca.noarch 0:1.54-1 ca_NECTEC.noarch
0:1.54-1 ca_NERSC-SLCS.noarch 0:1.54-1
ca_NICS-MyProxy.noarch 0:1.54-1 ca_NIIF.noarch
0:1.54-1 ca_NIKHEF.noarch 0:1.54-1
ca_NorduGrid.noarch 0:1.54-1 ca_PK-Grid-
2007.noarch 0:1.54-1 ca_PRAGMA-UCSD.noarch 0:1.54-1
ca_PSC-Myproxy-CA.noarch 0:1.54-1 ca_PolishGrid.noarch
0:1.54-1 ca_QuoVadis-Root-CA1.noarch 0:1.54-1
ca_RDIG.noarch 0:1.54-1 ca_REUNA-ca.noarch
0:1.54-1 ca_RomanianGRID.noarch 0:1.54-1
ca_SDG.noarch 0:1.54-1 ca_SEE-GRID.noarch
0:1.54-1 ca_SRCE.noarch 0:1.54-1
ca_SWITCH-QuoVadis-Grid-ICA.noarch 0:1.54-1 ca_SWITCHgrid-
Root.noarch 0:1.54-1 ca_SWITCHslcs2011.noarch 0:1.54-1
ca_SiGNET-CA.noarch 0:1.54-1 ca_SlovakGrid.noarch
0:1.54-1 ca_TERENA-eScience-SSL-CA.noarch 0:1.54-1
ca_TERENAeSciencePersonalCA.noarch 0:1.54-1 ca_TRGrid.noarch
0:1.54-1 ca_UGRID.noarch 0:1.54-1
ca_UKeScienceCA-2A.noarch 0:1.54-1 ca_UKeScienceCA-
2B.noarch 0:1.54-1 ca_UKeScienceRoot-2007.noarch 0:1.54-1
ca_ULAGrid-CA-2008.noarch 0:1.54-1 ca_UNAMgrid-ca.noarch
0:1.54-1 ca_UNLPGrid.noarch 0:1.54-1
ca_UTN-USERFirst-Hardware.noarch 0:1.54-1
ca_UTNAAClient.noarch 0:1.54-1 ca_UniandesCA.noarch
0:1.54-1
ca_cilogon-silver.noarch 0:1.54-1 ca_pkIRISGrid.noarch
0:1.54-1

```

Complete!

```
[root@virgo ~]# yum install fetch-crl
```

```
Loaded plugins: changelog, kernel-module, protectbase, security, tsflags,
versionlock
```

```
260 packages excluded due to repository protections
Reading version lock configuration
Setting up Install Process
Resolving Dependencies
--> Running transaction check
--> Package fetch-crl.noarch 0:2.8.5-1.e15 set to be updated
--> Finished Dependency Resolution
Beginning Kernel Module Plugin
Finished Kernel Module Plugin
```

Dependencies Resolved

```
=====
=====
===
Package                               Arch
Version                               Repository
Size
=====
=====
===
Installing:
  fetch-crl                           noarch
  2.8.5-1.e15                          epel
  24 k
```

Transaction Summary

```
=====
=====
===
Install      1 Package(s)
Upgrade      0 Package(s)
```

```
Total download size: 24 k
Is this ok [y/N]: y
Downloading Packages:
fetch-crl-2.8.5-1.e15.noarch.rpm
| 24 kB      00:00
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing      : fetch-crl
1/1
```

```
Installed:
  fetch-crl.noarch 0:2.8.5-1.e15
```

```
Complete!
[root@virgo ~]# /etc/init.d/fetch-crl-cron start
Enabling periodic fetch-crl: [ OK ]
[root@virgo ~]# chkconfig fetch-crl-cron on
[root@virgo ~]# /usr/sbin/fetch-crl
[root@virgo ~]# /usr/share/qcg-ntf/tools/qcg-ntf-install.sh
Welcome to qcg-ntf installation script!
```

This script will guide you through process of configuring proper environment for running the QCG Notification 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-ntf]:
User [qcg-ntf]:
Password [3qEWj/ICgV549GNa0I+7pSHXre5vvT7O]: *****
Create database? (y/n) [y]: y
```

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

Checking for system user qcg-ntf...OK  
Checking whether PostgreSQL server is installed...  
PostgreSQL server is not installed. Install now? (y/n) [y]: y  
Installing PostgreSQL server...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-ntf...OK  
\* Creating database qcg-ntf...OK  
\* Creating database schema...OK  
\* Checking for ODBC data source qcg-ntf...  
\* Installing ODBC data source...OK

The newly established database settings must be reflected in the Database section of the QCG-Notification configuration file (by default /etc/qcg/qcg-ntf/qcg-ntfd.xml)

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

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

and reload Postgres server.

```
[root@virgo ~]# vi /var/lib/pgsql/data/pg_hba.conf
[root@virgo ~]# /etc/init.d/postgresql reload
[root@virgo ~]# chmod 600 /etc/grid-security/hostcert.pem
[root@virgo ~]# touch /etc/grid-security/hostkey.pem
[root@virgo ~]# chmod 600 /etc/grid-security/hostkey.pem
[root@virgo ~]# vi /etc/grid-security/hostcert.pem
[root@virgo ~]# vi /etc/grid-security/hostkey.pem
[root@virgo ~]# vi /etc/qcg/qcg-ntf/qcg-ntfd.xml
[root@virgo ~]# chown qcg-ntf:root /etc/grid-security/host*.pem
[root@virgo ~]# /etc/init.d/qcg-ntfd start
Starting qcg-ntfd: [ OK ]
```

```
GENERIC_SERVICE_1
[root@virgo ~]# /etc/init.d/qcg-ntfd start
Starting qcg-ntfd: [ OK ]
[root@virgo ~]# /etc/init.d/qcg-ntfd status
qcg-ntfd (pid 13176 13175) is running...
[root@virgo ~]# /etc/init.d/qcg-ntfd restart
Shutting down qcg-ntfd: [ OK ]
Starting qcg-ntfd: [ OK ]
[root@virgo ~]# /etc/init.d/qcg-ntfd status
qcg-ntfd (pid 13260 13259) is running...
[root@virgo ~]# /etc/init.d/qcg-ntfd stop
Shutting down qcg-ntfd: [ OK ]
[root@virgo ~]# /etc/init.d/qcg-ntfd status
qcg-ntfd is stopped
```

```
GENERIC_SERVICE_2
[root@virgo ~]# ls -l /var/log/qcg/qcg-ntf/qcg-ntfd.log
-rw-r----- 1 qcg-ntf qcg-dev 62095 Aug  2 15:37 /var/log/qcg/qcg-ntf/qcg-ntfd.log
[root@virgo ~]# tail /var/log/qcg/qcg-ntf/qcg-ntfd.log
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....]
'http://schemas.qoscosgrid.org/ntf/2012/04/application-output-topics/Quantum'
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....]
'http://schemas.qoscosgrid.org/ntf/2011/04/sample/myhousetopics/House/Kitchen/Cook'
```



```
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....]
'http://schemas.qoscosgrid.org/comp/2011/04/notification/topic/ActivityState/S
uspended'
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....]
'http://schemas.qoscosgrid.org/broker/2012/01/notification-
topics/QCGBroker/Job'
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....] PullPoints
recovered from database
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....] Subscriptions
recovered from database
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....] Publishers'
Registrations recovered from database
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [.....] Notifications
buffer objects recovered from database
INF Aug 02 15:37:29 13260 0x2b8c05405d50 [ntf-service-gso] Service Address:
http://virgo.wcss.wroc.pl:19001
NOT Aug 02 15:37:37 13260 0x2b8c05405d50 [.....] Service ntfd (QCG
Notification) shutting down
```

GENERIC\_SEC\_1

```
[root@virgo ~]# find / -path /proc -prune -o -perm -0002 -type f -ls
[root@virgo ~]#
```

GENERIC\_SEC\_2

```
[root@virgo ~]# ls -l /etc/qcg/qcg-ntf/qcg-ntfd.xml
-rw----- 1 qcg-ntf root 2227 Aug  2 15:04 /etc/qcg/qcg-ntf/qcg-ntfd.xml
```

AUTHN\_CRED\_1

```
[root@virgo ~]# su - franek
[franek@virgo ~]$ grid-proxy-init
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 Aug  3 03:04:05 2013
[franek@virgo ~]$ qcg-ntf-client -u http://virgo.wcss.wroc.pl:19001 -S
"cons=http://localhost:2233
top=http://schemas.qoscosgrid.org/ntf/2011/04/sample/myhousetopics;//*;Full"
```

Subscribe details:

```
>>> provider: 'http://virgo.wcss.wroc.pl:19001'
>>> consRef: 'http://localhost:2233'
>>> topicNamespace:
'http://schemas.qoscosgrid.org/ntf/2011/04/sample/myhousetopics'
>>> topic: '//*'
>>> dialect: 'http://docs.oasis-open.org/wsn/t-1/TopicExpression/Full'
>>> period: ''
>>> xslt: no
```

Subscribed, subRef: '232568233'

AUTHN\_CRED\_3

```
[franek@virgo ~]$ grid-proxy-info
subject  : /C=PL/O=GRID/O=WCSS/CN=Franciszek Klajn/CN=626572828
issuer   : /C=PL/O=GRID/O=WCSS/CN=Franciszek Klajn
identity : /C=PL/O=GRID/O=WCSS/CN=Franciszek Klajn
type     : RFC 3820 compliant impersonation proxy
strength : 1024 bits
path     : /tmp/x509up_u500
timeleft : 11:54:52
[franek@virgo ~]$ qcg-ntf-client -u http://virgo.wcss.wroc.pl:19001 -S
"cons=http://localhost:2233
top=http://schemas.qoscosgrid.org/ntf/2011/04/sample/myhousetopics;//*;Full"
```

Subscribe details:

```
>>> provider: 'http://virgo.wcss.wroc.pl:19001'
>>> consRef: 'http://localhost:2233'
>>> topicNamespace:
'http://schemas.qoscosgrid.org/ntf/2011/04/sample/myhousetopics'
```

```
>>> topic: '/*'  
>>> dialect: 'http://docs.oasis-open.org/wsn/t-1/TopicExpression/Full'  
>>> period: ''  
>>> xslt: no
```

Subscribed, subRef: '1205708658'

**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:**