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Testing Report for HLR Release 4.0.15-0 on SL5 - IGIRTC-129

Update & Configuration

Log from the HLR host::

- update log here
- configuration log here

Installation & Configuration

Log from the HLR host::

- installation log here
- configuration log here

Log from the CE sensors dgas host:

- installation log here
- configuration is not necessary (it hasn't been performed)

RPM checks

The rpms installed:

```
[root@cert-13 ~]# rpm -qa | grep -i dgas | sort
glite-dgas-common-4.0.15-0.centos5
glite-dgas-hlr-clients-4.0.15-0.centos5
glite-dgas-hlr-service-4.0.15-0.centos5
glite-dgas-hlr-service-consumers-4.0.15-0.centos5
yaim-dgas-5.0.0-5
```

Check the rpm installed put the executable, libraries and configuration file in the right place:

```
[root@cert-13 ~]# rpm -ql glite-dgas-common-4.0.15-0.centos5
/usr/include
/usr/include/glite
/usr/include/glite/dgas
/usr/include/glite/dgas/tls
/usr/include/glite/dgas/tls/socket++
/usr/include/glite/dgas/tls/socket++/errors.h
/usr/include/glite/dgas/tls/socket++/tokens.h
/usr/lib64
/usr/lib64/libglite_dgas_config.a
/usr/lib64/libglite_dgas_config.so
/usr/lib64/libglite_dgas_config.so.0
/usr/lib64/libglite_dgas_config.so.0.0.0
/usr/lib64/libglite_dgas_localSecurity.a
/usr/lib64/libglite_dgas_localSecurity.so
/usr/lib64/libglite_dgas_localSecurity.so.0
/usr/lib64/libglite_dgas_localSecurity.so.0.0.0
/usr/lib64/libglite_dgas_lock.a
/usr/lib64/libglite_dgas_lock.so
/usr/lib64/libglite_dgas_lock.so.0
/usr/lib64/libglite_dgas_lock.so.0.0.0
```

```

/usr/lib64/libglite_dgas_log.a
/usr/lib64/libglite_dgas_log.so
/usr/lib64/libglite_dgas_log.so.0
/usr/lib64/libglite_dgas_log.so.0.0.0
/usr/lib64/libglite_dgas_tls_gsisocket_pp.a
/usr/lib64/libglite_dgas_tls_gsisocket_pp.so
/usr/lib64/libglite_dgas_tls_gsisocket_pp.so.0
/usr/lib64/libglite_dgas_tls_gsisocket_pp.so.0.0.0
/usr/lib64/libglite_dgas_tls_socket_pp.a
/usr/lib64/libglite_dgas_tls_socket_pp.so
/usr/lib64/libglite_dgas_tls_socket_pp.so.0
/usr/lib64/libglite_dgas_tls_socket_pp.so.0.0.0
/usr/lib64/libglite_dgas_xmlutil.a
/usr/lib64/libglite_dgas_xmlutil.so
/usr/lib64/libglite_dgas_xmlutil.so.0
/usr/lib64/libglite_dgas_xmlutil.so.0.0.0

```

```

[root@cert-13 ~]# rpm -ql glite-dgas-hlr-clients-4.0.15-0.centos5
/usr/bin
/usr/bin/dgas-hlr-query
/usr/bin/dgas-ping
/usr/lib64
/usr/lib64/libglite_dgas_pingClient.a
/usr/lib64/libglite_dgas_pingClient.so
/usr/lib64/libglite_dgas_pingClient.so.0
/usr/lib64/libglite_dgas_pingClient.so.0.0.0
/usr/share/man
/usr/share/man/man1
/usr/share/man/man1/dgas-hlr-query.1.gz
/usr/share/man/man1/dgas-ping.1.gz

```

```

[root@cert-13 ~]# rpm -ql glite-dgas-hlr-service-4.0.15-0.centos5
/etc/dgas
/etc/dgas/dgas_hlr.conf.template
/etc/dgas/dgas_hlr.sql
/etc/dgas/dgas_hlr_tmp.sql
/etc/dgas/dgas_sumrecords2goc.conf.template
/etc/dgas/glite-dgas-sumrecords2goc-SumCPU.sql
/usr/lib64
/usr/lib64/libdgasAtmResourceEngine.a
/usr/lib64/libdgasAtmResourceEngine.so
/usr/lib64/libdgasAtmResourceEngine.so.0
/usr/lib64/libdgasAtmResourceEngine.so.0.0.0
/usr/lib64/libdgasAtmResourceEngine2.a
/usr/lib64/libdgasAtmResourceEngine2.so
/usr/lib64/libdgasAtmResourceEngine2.so.0
/usr/lib64/libdgasAtmResourceEngine2.so.0.0.0
/usr/lib64/libdgasEngineCmnUtl.a
/usr/lib64/libdgasEngineCmnUtl.so
/usr/lib64/libdgasEngineCmnUtl.so.0
/usr/lib64/libdgasEngineCmnUtl.so.0.0.0
/usr/lib64/libglite_dgas_atmResBankClient.a
/usr/lib64/libglite_dgas_atmResBankClient.so
/usr/lib64/libglite_dgas_atmResBankClient.so.0
/usr/lib64/libglite_dgas_atmResBankClient.so.0.0.0
/usr/lib64/libglite_dgas_atmResBankClient2.a
/usr/lib64/libglite_dgas_atmResBankClient2.so
/usr/lib64/libglite_dgas_atmResBankClient2.so.0
/usr/lib64/libglite_dgas_atmResBankClient2.so.0.0.0
/usr/lib64/libglite_dgas_dbhelper.a
/usr/lib64/libglite_dgas_dbhelper.so
/usr/lib64/libglite_dgas_dbhelper.so.0
/usr/lib64/libglite_dgas_dbhelper.so.0.0.0
/usr/lib64/libglite_dgas_hlr.a
/usr/lib64/libglite_dgas_hlr.so

```

```

/usr/lib64/libglite_dgas_hlr.so.0
/usr/lib64/libglite_dgas_hlr.so.0.0.0
/usr/lib64/libglite_dgas_hlrGenericQuery.a
/usr/lib64/libglite_dgas_hlrGenericQuery.so
/usr/lib64/libglite_dgas_hlrGenericQuery.so.0
/usr/lib64/libglite_dgas_hlrGenericQuery.so.0.0.0
/usr/lib64/libglite_dgas_hlrQTransaction.a
/usr/lib64/libglite_dgas_hlrQTransaction.so
/usr/lib64/libglite_dgas_hlrQTransaction.so.0
/usr/lib64/libglite_dgas_hlrQTransaction.so.0.0.0
/usr/lib64/libglite_dgas_hlrTransLog.a
/usr/lib64/libglite_dgas_hlrTransLog.so
/usr/lib64/libglite_dgas_hlrTransLog.so.0
/usr/lib64/libglite_dgas_hlrTransLog.so.0.0.0
/usr/lib64/libglite_dgas_serviceCommonUtils.a
/usr/lib64/libglite_dgas_serviceCommonUtils.so
/usr/lib64/libglite_dgas_serviceCommonUtils.so.0
/usr/lib64/libglite_dgas_serviceCommonUtils.so.0.0.0
/usr/libexec
/usr/libexec/dgas-hlr-checkHostCertProxy.sh
/usr/libexec/dgas-hlr-urforward
/usr/libexec/dgas-ml-client
/usr/libexec/dgasmonitor
/usr/libexec/dgasmonitor/glite-dgas-monitor-run.sh
/usr/libexec/dgasmonitor/plugins
/usr/libexec/dgasmonitor/plugins/ping_2
/usr/libexec/dgasmonitor/plugins/ping_3
/usr/libexec/dgasmonitor/plugins/ping_4
/usr/libexec/dgastests
/usr/libexec/dgastests/full.test
/usr/libexec/dgastests/glite-dgas-testrun.pl
/usr/libexec/dgastests/joinCover.pl
/usr/libexec/dgastests/level1.test
/usr/libexec/dgastests/level2.test
/usr/libexec/dgastests/sensors_full.test
/usr/libexec/dgastests/storage.test
/usr/libexec/dgastests/test.conf
/usr/libexec/dgastests/tests
/usr/libexec/dgastests/tests/UR_LRMS_lsf.records
/usr/libexec/dgastests/tests/UR_LRMS_pbs.records
/usr/libexec/dgastests/tests/addResourceAuth.sh
/usr/libexec/dgastests/tests/atmClient.sh
/usr/libexec/dgastests/tests/benchmarksTest.sh
/usr/libexec/dgastests/tests/checkTable.sh
/usr/libexec/dgastests/tests/cleanResubJob.sh
/usr/libexec/dgastests/tests/cleanUpJob.sh
/usr/libexec/dgastests/tests/createLSFRecords.sh
/usr/libexec/dgastests/tests/delResourceAuth.sh
/usr/libexec/dgastests/tests/dgas_sensors_test.conf
/usr/libexec/dgastests/tests/dgas_sensors_test.conf.lsf.ldif.sed
/usr/libexec/dgastests/tests/dgas_sensors_test.conf.lsf.sed
/usr/libexec/dgastests/tests/dgas_sensors_test.conf.template
/usr/libexec/dgastests/tests/dgas_sensors_test_poolPatterns.conf
/usr/libexec/dgastests/tests/generateJobId.sh
/usr/libexec/dgastests/tests/glideInTest.sh
/usr/libexec/dgastests/tests/glite-info-dynamic-ce.ldif.4482
/usr/libexec/dgastests/tests/grid-jobmap.template
/usr/libexec/dgastests/tests/grid-jobmap.template.lsf
/usr/libexec/dgastests/tests/gridJobFQAN.lsf.sed
/usr/libexec/dgastests/tests/gridJobFQAN.sed
/usr/libexec/dgastests/tests/gridJobGlideIn.sed
/usr/libexec/dgastests/tests/gridJobpool.sed
/usr/libexec/dgastests/tests/hlrDBExists.sh
/usr/libexec/dgastests/tests/hlrHADIsAlive.sh
/usr/libexec/dgastests/tests/hlrQmgrIsAlive.sh
/usr/libexec/dgastests/tests/hlrServerIsAlive.sh
/usr/libexec/dgastests/tests/hlr_tmpDBExists.sh

```

```

/usr/libexec/dgastests/tests/localJobmap.sed
/usr/libexec/dgastests/tests/missingStartQtimeJob.sh
/usr/libexec/dgastests/tests/multiplePing.sh
/usr/libexec/dgastests/tests/multipleRecords.sh
/usr/libexec/dgastests/tests/mysqldPing.sh
/usr/libexec/dgastests/tests/mysqldStatus.sh
/usr/libexec/dgastests/tests/negativeWCTJob.sh
/usr/libexec/dgastests/tests/poolAccountPattern.conf.template
/usr/libexec/dgastests/tests/putLSFURindgasURBox.sh
/usr/libexec/dgastests/tests/putURindgasURBox.SQL.sh
/usr/libexec/dgastests/tests/putURindgasURBox.sh
/usr/libexec/dgastests/tests/static-test.ldif
/usr/libexec/dgastests/tests/test.lsf.UR
/usr/libexec/dgastests/tests/test.pbs.UR
/usr/libexec/dgastests/tests/test.pbs.UR.SQL
/usr/libexec/dgastests/tests/testJobMap.conf
/usr/libexec/dgastests/tests/testMinus_a.sh
/usr/libexec/dgastests/tests/testMinus_o.sh
/usr/libexec/dgastests/tests/testResubmission.sh
/usr/libexec/dgastests/tests/voOriginTest.sh
/usr/libexec/dgastests/tests/voproblemjob.sh
/usr/libexec/dgastests/tests/waitForJob.sh
/usr/libexec/dgastests/tests/wrongcputjob.sh
/usr/sbin
/usr/sbin/dgas-hlr-addadmin
/usr/sbin/dgas-hlr-addressource
/usr/sbin/dgas-hlr-archive
/usr/sbin/dgas-hlr-bdiiresimport.pl
/usr/sbin/dgas-hlr-checkqueue
/usr/sbin/dgas-hlr-dbcreate
/usr/sbin/dgas-hlr-deladmin
/usr/sbin/dgas-hlr-delresource
/usr/sbin/dgas-hlr-had.pl
/usr/sbin/dgas-hlr-listener
/usr/sbin/dgas-hlr-populateJobTransSummary
/usr/sbin/dgas-hlr-qmgr
/usr/sbin/dgas-hlr-queryadmin
/usr/sbin/dgas-hlr-queryresource
/usr/sbin/dgas-hlr-sqlexec
/usr/sbin/dgas-hlr-translatedb
/usr/sbin/dgas-hlrd
/usr/sbin/dgas-sumrecords2goc.pl
/usr/sbin/dgas-sumrecords2gocSSMAggregate.pl

[root@cert-13 ~]# rpm -ql glite-dgas-hlr-service-consumers-4.0.15-0.centos5
/etc/dgas
/etc/dgas/car_aggregated_v1.2.xsd
/etc/dgas/car_v1.2.xsd
/etc/dgas/dgas_amq_consumer.conf.template
/etc/dgas/ogfur_v1.xsd.xml
/usr/lib64
/usr/lib64/libglite_dgas_AMQConsumer.a
/usr/lib64/libglite_dgas_AMQConsumer.so
/usr/lib64/libglite_dgas_AMQConsumer.so.0
/usr/lib64/libglite_dgas_AMQConsumer.so.0.0.0
/usr/lib64/libglite_dgas_legacyRecordManager.a
/usr/lib64/libglite_dgas_legacyRecordManager.so
/usr/lib64/libglite_dgas_legacyRecordManager.so.0
/usr/lib64/libglite_dgas_legacyRecordManager.so.0.0.0
/usr/libexec
/usr/libexec/dgas-AMQConsumer
/usr/libexec/dgas-legacyRecordManager
/usr/libexec/glite-dgas-ogfurParser
/usr/sbin
/usr/sbin/dgas-hlr-amq-consumer

```

```
[root@cert-13 ~]# rpm -ql yaim-dgas-5.0.0-5
/opt/glite/yaim/defaults
/opt/glite/yaim/defaults/hlr.pre
/opt/glite/yaim/examples/siteinfo/services
/opt/glite/yaim/examples/siteinfo/services/dgas_sensors
/opt/glite/yaim/examples/siteinfo/services/hlr
/opt/glite/yaim/examples/siteinfo/services/igi-hlr
/opt/glite/yaim/functions
/opt/glite/yaim/functions/config_dgas_ce
/opt/glite/yaim/functions/config_dgas_hlr
/opt/glite/yaim/functions/config_dgas_mysql
/opt/glite/yaim/functions/utils
/opt/glite/yaim/functions/utils/manage_conf
/opt/glite/yaim/node-info.d
/opt/glite/yaim/node-info.d/dgas_sensors
/opt/glite/yaim/node-info.d/hlr
/opt/glite/yaim/node-info.d/igi-hlr
```

Only yaim files are in /opt/glite all other HLR server files are in EMI or linux standard places.

First Functionality Test (Legacy mode):

Try to submit 20 jobs to a CE and see if the records arrive to HLR :

From HLR Server : Check the dgas-hlrd status and add the resource (CE DN is needed) from dgas:

```
[root@cert-13 ~]# /etc/init.d/dgas-hlrd status
/var/lock/dgas/dgas_hlrd.lock
Process HLR listener: 8465
root      8465 99.8  0.1 113028  3540 pts/0    R   Jan30 1089:59 /usr/sbin/dgas-hlr-listener -o
The process is running.
/var/lock/dgas/dgas_hlr_qmgrd.lock
Process Batch Transaction manager: 8466
root      8466  0.0  0.1 110588  4000 pts/0    S   Jan30   0:11 /usr/sbin/dgas-hlr-qmgr -l /var
The process is running.
/var/lock/dgas/dgas_hlr_urforward.lock
Process urForward: 8467
root      8467  0.0  0.1 100512  5316 pts/0    S   Jan30   0:00 /usr/libexec/dgas-hlr-urforward
The process is running.

[root@cert-13 ~]# dgas-hlr-addadmin -Sa "/C=IT/O=INFN/OU=Host/L=Padova/CN=cert-34.pd.infn.it"
Record added!
```

From CE CREAM Host: The dgas sensors into the CE CREAM host cert-34.pd.infn.it are the production sensors release:

```
[root@cert-34 ~]# rpm -qa | grep -i dgas | sort
glite-dgas-common-4.0.13-0.centos5
glite-dgas-hlr-clients-4.0.13-0.centos5
glite-dgas-hlr-sensors-4.0.13-1.centos5
glite-dgas-hlr-sensors-producers-4.0.13-2.centos5
yaim-dgas-5.0.0-3
```

From UI :

```
[traldis@cert-25 ~]$ for i in `seq 1 20`; do glite-ce-job-submit -r cert-34.pd.infn.it:8443/cream
https://cert-34.pd.infn.it:8443/CREAM454293718
https://cert-34.pd.infn.it:8443/CREAM771354464
https://cert-34.pd.infn.it:8443/CREAM648230101
https://cert-34.pd.infn.it:8443/CREAM371216538
https://cert-34.pd.infn.it:8443/CREAM062490903
https://cert-34.pd.infn.it:8443/CREAM496753688
```

```
https://cert-34.pd.infn.it:8443/CREAM583232492
https://cert-34.pd.infn.it:8443/CREAM124393641
https://cert-34.pd.infn.it:8443/CREAM671949895
https://cert-34.pd.infn.it:8443/CREAM397215650
https://cert-34.pd.infn.it:8443/CREAM355727761
https://cert-34.pd.infn.it:8443/CREAM433740729
https://cert-34.pd.infn.it:8443/CREAM962473061
https://cert-34.pd.infn.it:8443/CREAM547526727
https://cert-34.pd.infn.it:8443/CREAM832741628
https://cert-34.pd.infn.it:8443/CREAM496403740
https://cert-34.pd.infn.it:8443/CREAM949026022
https://cert-34.pd.infn.it:8443/CREAM520168772
https://cert-34.pd.infn.it:8443/CREAM178680557
https://cert-34.pd.infn.it:8443/CREAM083653896
```

```
[traldi@cert-25 ~]$ glite-ce-job-status https://cert-34.pd.infn.it:8443/CREAM454293718
```

```
***** JobID=[https://cert-34.pd.infn.it:8443/CREAM454293718]
        Status      = [DONE-OK]
        ExitCode     = [0]
```

```
[traldi@cert-25 ~]$ glite-ce-job-status https://cert-34.pd.infn.it:8443/CREAM355727761
```

```
***** JobID=[https://cert-34.pd.infn.it:8443/CREAM355727761]
        Status      = [DONE-OK]
        ExitCode     = [0]
```

From HLR Server : Check the data before sending:

```
mysql> select count(*) from jobTransSummary;
+-----+
| count(*) |
+-----+
|         0 |
+-----+
1 row in set (0.00 sec)
```

Check the data after sending:

```
mysql> select count(*) from jobTransSummary;
+-----+
| count(*) |
+-----+
|         20 |
+-----+
1 row in set (0.00 sec)
```

Second Functionality Test (Legacy mode) using new sensors version:

In the section above you could have a look to update sensors log.

From CE CREAM Host: The dgas sensors into the CE CREAM host cert-34.pd.infn.it are the new release of sensors (nothing should be change):

```
[root@cert-34 ~]# rpm -qa | grep -i dgas
yaim-dgas-5.0.0-5
glite-dgas-hlr-sensors-4.0.13-1.centos5
glite-dgas-hlr-clients-4.0.15-0.centos5
glite-dgas-common-4.0.15-0.centos5
```

glite-dgas-hlr-sensors-producers-4.0.13-2.centos5

No service dgas-urcollector and dgas-pushd restart have been performed.

From UI :

```
[traldis@cert-25 ~]$ for i in `seq 1 10`; do glite-ce-job-submit -r cert-34.pd.infn.it:8443/cream
https://cert-34.pd.infn.it:8443/CREAM768368487
https://cert-34.pd.infn.it:8443/CREAM675666899
https://cert-34.pd.infn.it:8443/CREAM313629381
https://cert-34.pd.infn.it:8443/CREAM840991372
https://cert-34.pd.infn.it:8443/CREAM849130647
https://cert-34.pd.infn.it:8443/CREAM211683581
https://cert-34.pd.infn.it:8443/CREAM245534322
https://cert-34.pd.infn.it:8443/CREAM389791164
https://cert-34.pd.infn.it:8443/CREAM893412136
https://cert-34.pd.infn.it:8443/CREAM031719644
[traldis@cert-25 ~]$ glite-ce-job-status https://cert-34.pd.infn.it:8443/CREAM768368487

***** JobID=[https://cert-34.pd.infn.it:8443/CREAM768368487]
        Status      = [DONE-OK]
        ExitCode     = [0]
```

In HLR Server host : Have a look into the database:

```
mysql> select count(*) from jobTransSummary;
+-----+
| count(*) |
+-----+
|      32 |
+-----+
1 row in set (0.00 sec)
```

The data is correctly arrived.

Third Functionality Test (Legacy mode) using production SL6 sensors:

From UI :

```
[traldis@cert-25 ~]$ for i in `seq 1 10`; do glite-ce-job-submit -r cert-42.pd.infn.it:8443/cream
https://cert-42.pd.infn.it:8443/CREAM521031751
https://cert-42.pd.infn.it:8443/CREAM664910766
https://cert-42.pd.infn.it:8443/CREAM517756636
https://cert-42.pd.infn.it:8443/CREAM645148068
https://cert-42.pd.infn.it:8443/CREAM188810458
https://cert-42.pd.infn.it:8443/CREAM636346939
https://cert-42.pd.infn.it:8443/CREAM375860081
https://cert-42.pd.infn.it:8443/CREAM236187206
https://cert-42.pd.infn.it:8443/CREAM064751117
https://cert-42.pd.infn.it:8443/CREAM449910430
</verbatim>
```

In HLR Server host :

<verbatim>

```
mysql> select * from trans_in order by tr_stamp desc limit 10;
```

tid	rid	gid	from_dn
106	cert-42.pd.infn.it:cert	NONE	/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio
108	cert-42.pd.infn.it:cert	NONE	/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio

