

Testing Report for Release 4.0.13-0

Installation & Configuration

Following the above instruction, you can found:

- installation log here
- configuration log here

RPM checks

The rpms installed:

```
[root@cert-13 ~]# rpm -qa | grep -i dgas | sort
glite-dgas-common-4.0.13-0.s15
glite-dgas-hlr-clients-4.0.13-0.s15
glite-dgas-hlr-service-4.0.13-0.s15
glite-dgas-hlr-service-consumers-4.0.13-0.s15
glite-dgas-pa-clients-4.0.8-0.s15
yaim-dgas-5.0.0-4
```

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

```
[root@cert-13 ~]# rpm -ql glite-dgas-common-4.0.13-0.s15
/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/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-4.0.13-0.s15
/usr/bin/dgas-hlr-query
```

```

/usr/bin/dgas-ping
/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/man1/dgas-hlr-query.1.gz
/usr/share/man/man1/dgas-ping.1.gz

```

```

[root@cert-13 ~]# rpm -ql glite-dgas-hlr-service-4.0.13-0.s15
/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/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/hlrServerdIsAlive.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/dgas-hlr-addadmin
/usr/sbin/dgas-hlr-addresource

```

```

/usr/sbin/dgas-hlr-archive
/usr/sbin/dgas-hlr-bdiimport.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-hlrld
/usr/sbin/dgas-sumrecords2goc.pl

```

```

[root@cert-13 ~]# rpm -ql glite-dgas-hlr-service-consumers-4.0.13-0.s15
/etc/dgas
/etc/dgas/car_aggregated_v1.0.xsd
/etc/dgas/car_v1.0.xsd
/etc/dgas/dgas_amq_consumer.conf.template
/etc/dgas/ogfur_v1.xsd.xml
/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/dgas-hlr-amq-consumer

```

```

[root@cert-13 ~]# rpm -ql glite-dgas-pa-clients-4.0.8-0.s15
/usr/bin/dgas-pa-info
/usr/lib64/libglite_dgas_paClient.a
/usr/lib64/libglite_dgas_paClient.so
/usr/lib64/libglite_dgas_paClient.so.0
/usr/lib64/libglite_dgas_paClient.so.0.0.0

```

```

[root@cert-13 ~]# rpm -ql yaim-dgas-5.0.0-4
/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 some 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: 13711
root    13711  0.2  1.5 245492 49420 ?        S    May28   9:32 /usr/sbin/dgas-hlr-listener -c
The process is running.
/var/lock/dgas/dgas_hlr_qmgrd.lock
Process Batch Transaction manager: 13712
root    13712  0.0  0.0 112424  2672 ?        S    May28   1:11 /usr/sbin/dgas-hlr-qmgr -l /var
The process is running.
Server alive.
listener answers to ping
/var/lock/dgas/dgas_hlr_urforward.lock
Process urForward: 13713
root    13713  0.0  0.1 100460  4228 ?        S    May28   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-4.0.6-0.s15
glite-dgas-hlr-clients-4.0.6-0.s15
glite-dgas-hlr-sensors-4.0.6-2.s15
glite-dgas-hlr-sensors-producers-4.0.6-1.s15
yaim-dgas-5.0.0-3
```

From UI :

```
-bash-3.2$ glite-ce-job-submit -r cert-34.pd.infn.it:8443/cream-pbs-cert -a testCream1.jdl
https://cert-34.pd.infn.it:8443/CREAM262009988
```

```
-bash-3.2$ glite-ce-job-status https://cert-34.pd.infn.it:8443/CREAM262009988
```

```
***** JobID=[https://cert-34.pd.infn.it:8443/CREAM262009988]
Status      = [REALLY-RUNNING]
```

```
-bash-3.2$ glite-ce-job-status https://cert-34.pd.infn.it:8443/CREAM262009988
```

```
***** JobID=[https://cert-34.pd.infn.it:8443/CREAM262009988]
Status      = [DONE-OK]
ExitCode    = [0]
```

From HLR Server : Check the data

```
mysql> select * from trans_in;
+-----+-----+-----+-----+-----+
| tid | rid | gid | from_dn |
+-----+-----+-----+-----+
| 1 | cert-34.pd.infn.it:cert | NONE | /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Second Functionality Test (Legacy mode):

Copy from a preproduction CE many accounting jobs info to allow the HLR to work with real load:

Copy the accounting data:

```
[root@cert-37 ~]# rsync -axv /var/log/cream/accounting/* cert-34:/var/log/cream/accounting/
[root@cert-37 ~]# rsync -axv /opt/lsf_7.0/work/pd_lsf70_sl4/logdir/* cert-34:/opt/lsf_7.0/work/pd
```

Change the dgas sensors file:

```
[root@cert-34 ~]# cat /etc/dgas/dgas_sensors.conf | egrep -v '^#|^$'
siteName="INFN-PADOVA"
lrmsType="lsf"
lsfAcctLogDir = "/opt/lsf_7.0/work/pd_lsf70_sl4/logdir/"
res_acct_bank_id="cert-13.pd.infn.it:56568:"
ignoreJobsLoggedBefore="2009-04-01"
useCEJobMap = "yes"
ceJobMapLog="/var/log/cream/accounting/blahp.log"
collectorLockFileName="/var/lock/dgas/dgas_urcollector.lock"
collectorHADLockFileName="/var/lock/dgas/dgas_urcollector_had.lock"
collectorLogFileName="/var/log/dgas/dgas_urcollector.log"
collectorBufferFileName = "/var/dgasCollectorBuffer"
mainPollInterval="5"
jobPerTimeInterval="100"
timeInterval="1"
systemLogLevel="7"
limiterWaitFor="5"
maxNumRecords="10000"
localHostNameAsCEHostName = "no"
jobsToProcess="grid"
keyList="GlueHostBenchmarkSF00,GlueHostBenchmarkSI00,GlueHostApplicationSoftwareRunTimeEnvironmen
glueLdifFile="/var/lib/bdii/gip/ldif/static-file-Cluster.ldif"
pushdLockFileName="/var/lock/dgas/dgas_pushd.lock"
pushdLogFileName="/var/log/dgas/dgas_pushd.log"
localUserGroup2VOMap="/etc/dgas/dgas_localUserGroup2VOMap.conf"
gipDynamicTmpCEFiles = "ldap://`hostname`:2170"
qMult="1"
queuePollInterval="2"
queuePollInterval="2"
voToProcess=""
useCEHostName="cert-34.pd.infn.it"
```

Restart the dgas sensors process:

```
[root@cert-34 ~]# /etc/init.d/dgas-urcollector restart
Stopping urCollector HAD... [ OK ]
Stopping dgas-urcollector-SQLite.pl: [ OK ]
Starting dgas-urcollector-SQLite.pl: [ OK ]
Starting urCollector HAD... [ OK ]

[root@cert-34 ~]# /etc/init.d/dgas-pushd restart
Stopping dgas-pushd-SQLite.pl:/var/lock/dgas/dgas_pushd.loc[ OK ]1286)
Starting dgas-pushd-SQLite.pl: [ OK ]
```

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

```
mysql> select count(*) from trans_in;
+-----+
```

Release40130 < IGIRelease < TWiki

```
| count(*) |
+-----+
|      4376 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select count(*) from trans_in;
+-----+
| count(*) |
+-----+
|  193376 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from trans_in order by tid desc limit 10;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tid    | rid                                  | gid  | from_dn
| amount | tr_stamp    | dgJobId
| uniqueChecksum          | accountingProcedure |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 193376 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/Zj_4hAmYDBloz8xIUXb_6g |
b6efae1ad1dd78e72ddd082497aac157 | grid |
| 193375 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/eMb7bbYFkg0_OKy0-yZXhg |
1a76f03292ac1f77a3603a5034174ecd | grid |
| 193374 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967305 | https://lb-enmr.science.uu.nl:9000/jQdyFL_gB-jvG5J37q0N3g |
f66541cd5ddfbb50213556c15f327e68 | grid |
| 193373 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/OMP62id1sjtThxsvBmhIgg |
a71a28e4dcdffefc9b98341f08e69bec | grid |
| 193372 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/Xgu6gzpQzmhyPXxASQ8sg |
03fa418be9cbc708c13019fb37ae1be2 | grid |
| 193371 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/R6KN9pKnFLiTT3FVWPI9Uw |
b1df5764c854cd5912c62cdaa3778608 | grid |
| 193370 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/SnvtupymmS6OvUM0M5hx9g |
2231f6d83953b933f8a6bc4117eb5e47 | grid |
| 193369 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/YVtkXTignrfq0x2EwwRCVg |
31a3efda407af8307b5f05c64ff07a07 | grid |
| 193368 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/fbRhTJoMDmhOfg-hx49v7Q |
4a3631c980804674f97f6a25c55db164 | grid |
| 193367 | cert-34.pd.infn.it:grid | NONE | /O=dutchgrid/O=users/O=universiteit-utrecht/OU=chem/CN=Tobias Madl | 0 |
1337967306 | https://lb-enmr.science.uu.nl:9000/6v1Z5r8XWhuUdSWzvLPgFQ |
a3ef4800428662ee5dff027efc323be3 | grid |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

Simple test with Sensors in CREAM SL6

From CE

```
[root@cert-42 ~]# cat /etc/redhat-release
Scientific Linux release 6.3 (Carbon)
```

```
[root@cert-42 ~]# rpm -qa | grep -i dgas
yaim-dgas-5.0.0-4.noarch
glite-dgas-hlr-sensors-producers-4.0.13-2.centos6.x86_64
glite-dgas-common-4.0.13-0.centos6.x86_64
glite-dgas-hlr-clients-4.0.13-0.centos6.x86_64
glite-dgas-hlr-sensors-4.0.13-0.centos6.x86_64
```

```
[root@cert-42 ~]# /opt/glite/yaim/bin/yaim -c -d 6 -s /root/siteinfo/site-info.def -n creamCE -n
```

```
[root@cert-42 ~]# /etc/init.d/dgas-urcollector status
root      2374  0.9  0.3 151828  8976 pts/0    S    Oct08  12:21 /usr/bin/perl -w /usr//sbin/dgas
The process is running.
```

```
[root@cert-42 ~]# /etc/init.d/dgas-pushd status
Process dgas-pushd-SQLite.pl: 2388
root      2388  0.0  0.2 150528  7740 pts/0    S    Oct08   1:15 /usr/bin/perl -w /usr//sbin/dgas
The process is running.
```

From HLR server:

```
mysql> select * from trans_in order by tid desc limit 5;
```

tid	rid	gid	from_dn
24265834	cert-42.pd.infn.it:cert	NONE	CN=Sergio Traldi,L=Padova,OU=Personal
24265833	cert-42.pd.infn.it:cert	NONE	CN=Sergio Traldi,L=Padova,OU=Personal
24265832	cert-42.pd.infn.it:cert	NONE	CN=Sergio Traldi,L=Padova,OU=Personal
24265831	cert-42.pd.infn.it:cert	NONE	CN=Sergio Traldi,L=Padova,OU=Personal
24265830	cert-42.pd.infn.it:cert	NONE	CN=Sergio Traldi,L=Padova,OU=Personal

Update Test:

Back up the old databases :

Form previous HLR Server stop the dgas services and make a dump of the databases:

Stop the services :

```
[root@prod-hlr-01 ~]# /etc/init.d/glite-dgas-hlrd stop
Stopping HAD... [ OK ]
Stopping HLR listener:/opt/glite/var/dgas/hlr.lock (pid 172[ OK ]
Stopping Batch Transaction manager:/opt/glite/var/dgas/hlr_[ OK ]ck (pid 17204)
Stopping urForward:/opt/glite/var/dgas/glite-dgas-ur-forward[ OK ]pid 17206)
```

```
[root@prod-hlr-01 ~]# ps -ef | grep -i dgas
root      2006 31449  0 11:22 pts/2    00:00:00 grep -i dgas
```

Check disk space Ensure you have enough space in the disk:

```
[root@prod-hlr-01 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/md0        29G   3.5G   24G  13% /
/dev/md1        494M   17M  452M   4% /boot
none            1.5G     0   1.5G   0% /dev/shm
```


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```
/dev/md3          81G   73G   7.8G   91% /var/lib/mysql
prod-mon-01:/data 228G   2G   227G   1% /data
```

In our case we mount a nfs partition to the HLR Server

Make the dump :

```
mysqldump --user=root --password hlr_Padova > /data/hlr.sql
mysqldump --user=root --password hlr_tmp_Padova > /data/hlr_tmp.sql
```

Installation : Install again the host with SL5 x86_64 SL distribution or install a new host where the HLR Server will be installed.

Following the above instructions install the HLR Server and configure using yaim.

Stop the HLR server process:

```
[root@cert-13 ~]# /etc/init.d/dgas-hlrd stop
chown: `dgas:dgas': invalid user
Stopping HAD... [ OK ]
Stopping HLR listener:/var/lock/dgas/dgas_hlrd.lock (pid 23[ OK ]
Stopping Batch Transaction manager:/var/lock/dgas/dgas_hlr_qmgrd.lock (pid 23264)
Stopping urForward:/var/lock/dgas/dgas_hlr_urforward.lock ([ OK ]5)
```

```
[root@cert-13 ~]# ps -ef | grep -i dgas
root      23431 22263  0 11:34 pts/0    00:00:00 grep -i dgas
```

Restore the dump :

```
[root@cert-13 ~]# mysql -u root -p hlr_tmp < /data/hlr_tmp.sql
Enter password:
```

```
[root@cert-13 ~]# mysql -u root -p hlr < /data/hlr.sql
Enter password:
```

check dgas services

```
[root@cert-13 ~]# ps -ef | grep dgas
root      25194 2324  0 11:43 pts/0    00:00:00 grep dgas
```

execute translate DB

```
[root@cert-13 ~]# nohup /usr/sbin/dgas-hlr-translatedb --D &
[1] 25195
[root@cert-13 ~]# nohup: appending output to `nohup.out'
[1]+  Done                  nohup /usr/sbin/dgas-hlr-translatedb --D
```

Start dgas services :

```
[root@cert-13 ~]# /etc/init.d/dgas-hlrd start
chown: `dgas:dgas': invalid user
Initializing DGAS HLR...Locking other instances out.
Initializing database, this operation can take minutes to hours to complete depending on the size
Starting HLR listener: [ OK ]
Starting Batch Transaction manager: [ OK ]
Starting urForward: [ OK ]
Starting DGAS HAD... [ OK ]
```

Check dgas services :

Update Test:

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```
[root@cert-13 ~]# ps -ef | grep dgas
root      13910      1  0 09:46 pts/0    00:00:00 /usr/sbin/dgas-hlr-listener -c /etc/dgas/dgas_hl
root      13911      1  0 09:46 pts/0    00:00:00 /usr/sbin/dgas-hlr-qmgr -l /var/log/dgas/dgas_hl
root      13912      1  0 09:46 pts/0    00:00:00 /usr/libexec/dgas-hlr-urforward -c /etc/dgas/dga
root      13913      1  0 09:46 pts/0    00:00:00 /usr/bin/perl -w /usr/sbin/dgas-hlr-had.pl /etc/
root      13922    2324  0 09:46 pts/0    00:00:00 grep dgas
```

Check data :

```
[root@cert-13 ~]# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 272404
Server version: 5.0.95 Source distribution
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| hlr                     |
| hlr_tmp                 |
| mysql                   |
| test                    |
+-----+
5 rows in set (0.07 sec)
```

```
mysql> use hlr;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

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

```
mysql> select count(*) from trans_in;
+-----+
| count(*) |
+-----+
| 22257636 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> exit
Bye
```

Execute populateJobTransSummary:

```
[root@cert-13 ~]# /usr/sbin/dgas-hlr-populateJobTransSummary
Locking other instances out.
writing records: ##### [ 0%] E:905 sec ETA:0 min
writing records: ##### [ 0%] E:617 sec ETA:0 min
writing records: ##### [ 1%] E:769 sec ETA:1268 min
```

Update Test:

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writing records: ##### [1%] E:835 sec ETA:1268 min
writing records: ##### [2%] E:663 sec ETA:1082 min
writing records: ##### [2%] E:559 sec ETA:1082 min
writing records: ##### [3%] E:427 sec ETA:690 min
writing records: ##### [3%] E:609 sec ETA:690 min
writing records: ##### [4%] E:844 sec ETA:1350 min
writing records: #####EE#EEEEEE#EE#####EEE##### [4%] E:692 sec ETA:1350 min
writing records: #####EEE#EEE##### [4%] E:657 sec ETA:1350 min
writing records: ##### [5%] E:612 sec ETA:969 min
writing records: ##### [5%] E:306 sec ETA:969 min
writing records: #####EEEE#EE [6%] E:494 sec ETA:773 min
writing records: EE###E#E#####E##### [6%] E:482 sec ETA:773 min
writing records: ##### [7%] E:536 sec ETA:830 min
writing records: ##### [7%] E:906 sec ETA:830 min
writing records: ##### [8%] E:1972 sec ETA:3023 min
writing records: ##### [8%] E:1504 sec ETA:3023 min
writing records: ##### [9%] E:1261 sec ETA:1912 min
writing records: ##### [9%] E:387 sec ETA:1912 min
writing records: ##### [9%] E:265 sec ETA:1912 min
writing records: ##### [10%] E:381 sec ETA:571 min
writing records: ##### [10%] E:531 sec ETA:571 min
writing records: ##### [11%] E:1197 sec ETA:1775 min
writing records: ##### [11%] E:605 sec ETA:1775 min
writing records: ##### [12%] E:666 sec ETA:976 min
writing records: ##### [12%] E:509 sec ETA:976 min
writing records: ##### [13%] E:1272 sec ETA:1844 min
writing records: ##### [13%] E:1006 sec ETA:1844 min
writing records: ##### [13%] E:1223 sec ETA:1844 min
writing records: ##### [14%] E:1239 sec ETA:1775 min
writing records: ##### [14%] E:748 sec ETA:1775 min
writing records: ##### [15%] E:1107 sec ETA:1568 min
writing records: ##### [15%] E:817 sec ETA:1568 min
writing records: ##### [16%] E:790 sec ETA:1106 min
writing records: ##### [16%] E:959 sec ETA:1106 min
writing records: ##### [17%] E:1071 sec ETA:1481 min
writing records: ##### [17%] E:1608 sec ETA:1481 min
writing records: ##### [18%] E:1534 sec ETA:2096 min
writing records: ##### [18%] E:1609 sec ETA:2096 min
writing records: ##### [18%] E:2089 sec ETA:2096 min
writing records: ##### [19%] E:2449 sec ETA:3306 min
writing records: ##### [19%] E:2100 sec ETA:3306 min
writing records: ##### [20%] E:1890 sec ETA:2520 min
writing records: ##### [20%] E:1075 sec ETA:2520 min
writing records: ##### [21%] E:685 sec ETA:901 min
writing records: ##### [21%] E:4486 sec ETA:901 min
writing records: ##### [22%] E:1509 sec ETA:1961 min
writing records: ##### [22%] E:1192 sec ETA:1961 min
writing records: ##### [22%] E:1836 sec ETA:1961 min
writing records: ##### [23%] E:2283 sec ETA:2929 min
writing records: ##### [23%] E:2029 sec ETA:2929 min
writing records: ##### [24%] E:3468 sec ETA:4392 min
writing records: ##### [24%] E:1370 sec ETA:4392 min
writing records: ##### [25%] E:1687 sec ETA:2108 min
writing records: ##### [25%] E:2564 sec ETA:2108 min
writing records: ##### [26%] E:1066 sec ETA:1314 min
writing records: ##### [26%] E:1204 sec ETA:1314 min
writing records: ##### [27%] E:2223 sec ETA:2704 min
writing records: ##### [27%] E:1339 sec ETA:2704 min
writing records: ##### [27%] E:387 sec ETA:2704 min
writing records: ##### [28%] E:989 sec ETA:1186 min
writing records: ##### [28%] E:961 sec ETA:1186 min
writing records: ##### [29%] E:1470 sec ETA:1739 min
writing records: ##### [29%] E:1535 sec ETA:1739 min
writing records: ##### [30%] E:1394 sec ETA:1626 min
writing records: ##### [30%] E:1632 sec ETA:1626 min
writing records: ##### [31%] E:1855 sec ETA:2133 min
writing records: ##### [31%] E:1613 sec ETA:2133 min

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writing records: ##### [31%] E:1903 sec ETA:2133 min
writing records: ##### [32%] E:1264 sec ETA:1432 min
writing records: ##### [32%] E:1637 sec ETA:1432 min
writing records: ##### [33%] E:1628 sec ETA:1817 min
writing records: ##### [33%] E:1463 sec ETA:1817 min
writing records: ##### [34%] E:1030 sec ETA:1133 min
writing records: ##### [34%] E:1115 sec ETA:1133 min
writing records: ##### [35%] E:1263 sec ETA:1368 min
writing records: ##### [35%] E:1362 sec ETA:1368 min
writing records: ##### [36%] E:1223 sec ETA:1304 min
writing records: ##### [36%] E:614 sec ETA:1304 min
writing records: ##### [36%] E:522 sec ETA:1304 min
writing records: ##### [37%] E:695 sec ETA:729 min
writing records: ##### [37%] E:519 sec ETA:729 min
writing records: ##### [38%] E:545 sec ETA:563 min
writing records: ##### [38%] E:729 sec ETA:563 min
writing records: ##### [39%] E:442 sec ETA:449 min
writing records: ##### [39%] E:366 sec ETA:449 min
writing records: ##### [40%] E:412 sec ETA:412 min
writing records: ##### [40%] E:406 sec ETA:412 min
writing records: ##### [40%] E:340 sec ETA:412 min
writing records: ##### [41%] E:369 sec ETA:362 min
writing records: ##### [41%] E:374 sec ETA:362 min
writing records: ##### [42%] E:582 sec ETA:562 min
writing records: ##### [42%] E:846 sec ETA:562 min
writing records: ##### [43%] E:876 sec ETA:832 min
writing records: ##### [43%] E:1983 sec ETA:832 min
writing records: ##### [44%] E:1616 sec ETA:1508 min
writing records: ##### [44%] E:1516 sec ETA:1508 min
writing records: ##### [45%] E:1985 sec ETA:1819 min
writing records: ##### [45%] E:1580 sec ETA:1819 min
writing records: ##### [45%] E:1593 sec ETA:1819 min
writing records: ##### [46%] E:1641 sec ETA:1476 min
writing records: ##### [46%] E:1937 sec ETA:1476 min
writing records: ##### [47%] E:1736 sec ETA:1533 min
writing records: ##### [47%] E:1714 sec ETA:1533 min
writing records: ##### [48%] E:1652 sec ETA:1431 min
writing records: ##### [48%] E:1377 sec ETA:1431 min
writing records: ##### [49%] E:1129 sec ETA:959 min
writing records: ##### [49%] E:894 sec ETA:959 min
writing records: ##### [50%] E:1122 sec ETA:935 min
writing records: ##### [50%] E:783 sec ETA:935 min
writing records: ##### [50%] E:1018 sec ETA:935 min
writing records: ##### [51%] E:759 sec ETA:619 min
writing records: ##### [51%] E:562 sec ETA:619 min
writing records: ##### [52%] E:634 sec ETA:507 min
writing records: ##### [52%] E:633 sec ETA:507 min
writing records: ##### [53%] E:633 sec ETA:495 min
writing records: ##### [53%] E:637 sec ETA:495 min
writing records: ##### [54%] E:793 sec ETA:607 min
writing records: ##### [54%] E:793 sec ETA:607 min
writing records: ##### [54%] E:708 sec ETA:607 min
writing records: ##### [55%] E:569 sec ETA:426 min
writing records: ##### [55%] E:577 sec ETA:426 min
writing records: ##### [56%] E:1979 sec ETA:1451 min
writing records: ##### [56%] E:1839 sec ETA:1451 min
writing records: ##### [57%] E:1822 sec ETA:1305 min
writing records: ##### [57%] E:1635 sec ETA:1305 min
writing records: ##### [58%] E:1637 sec ETA:1145 min
writing records: ##### [58%] E:1738 sec ETA:1145 min
writing records: ##### [59%] E:2376 sec ETA:1623 min
writing records: ##### [59%] E:2497 sec ETA:1623 min
writing records: ##### [59%] E:1929 sec ETA:1623 min
writing records: ##### [60%] E:1642 sec ETA:1094 min
writing records: ##### [60%] E:1536 sec ETA:1094 min
writing records: ##### [61%] E:2099 sec ETA:1364 min
writing records: ##### [61%] E:2539 sec ETA:1364 min

Release40130 < IGIRelease < TWiki

writing records: ##### [62%] E:2272 sec ETA:1438 min
writing records: ##### [62%] E:2033 sec ETA:1438 min
writing records: ##### [63%] E:1723 sec ETA:1062 min
writing records: ##### [63%] E:1434 sec ETA:1062 min
writing records: ##### [63%] E:1758 sec ETA:1062 min
writing records: ##### [64%] E:1438 sec ETA:862 min
writing records: ##### [64%] E:1150 sec ETA:862 min
writing records: ##### [65%] E:1011 sec ETA:589 min
writing records: ##### [65%] E:1008 sec ETA:589 min
writing records: ##### [66%] E:978 sec ETA:554 min
writing records: ##### [66%] E:911 sec ETA:554 min
writing records: ##### [67%] E:946 sec ETA:520 min
writing records: ##### [67%] E:1560 sec ETA:520 min
writing records: #####E##### [68%] E:2546 sec ETA:1357 min
writing records: ##### [68%] E:1591 sec ETA:1357 min
writing records: ##### [68%] E:1051 sec ETA:1357 min
writing records: ##### [69%] E:929 sec ETA:479 min
writing records: ##### [69%] E:914 sec ETA:479 min
writing records: ##### [70%] E:816 sec ETA:408 min
writing records: ##### [70%] E:857 sec ETA:408 min
writing records: ##### [71%] E:820 sec ETA:396 min
writing records: ##### [71%] E:884 sec ETA:396 min
writing records: ##### [72%] E:868 sec ETA:405 min
writing records: ##### [72%] E:1524 sec ETA:405 min
writing records: ##### [72%] E:1123 sec ETA:405 min
writing records: ##### [73%] E:1168 sec ETA:525 min
writing records: ##### [73%] E:1068 sec ETA:525 min
writing records: ##### [74%] E:866 sec ETA:375 min
writing records: ##### [74%] E:1088 sec ETA:375 min
writing records: ##### [75%] E:748 sec ETA:311 min
writing records: ##### [75%] E:977 sec ETA:311 min
writing records: ##### [76%] E:1100 sec ETA:440 min
writing records: ##### [76%] E:1083 sec ETA:440 min
writing records: ##### [77%] E:1690 sec ETA:647 min
writing records: ##### [77%] E:1377 sec ETA:647 min
writing records: ##### [77%] E:1082 sec ETA:647 min
writing records: ##### [78%] E:1368 sec ETA:501 min
writing records: ##### [78%] E:946 sec ETA:501 min
writing records: ##### [79%] E:1195 sec ETA:418 min
writing records: ##### [79%] E:923 sec ETA:418 min
writing records: ##### [80%] E:1196 sec ETA:398 min
writing records: ##### [80%] E:1865 sec ETA:398 min
writing records: ##### [81%] E:2092 sec ETA:662 min
writing records: ##### [81%] E:1465 sec ETA:662 min
writing records: ##### [81%] E:1029 sec ETA:662 min
writing records: ##### [82%] E:1093 sec ETA:327 min
writing records: ##### [82%] E:929 sec ETA:327 min
writing records: ##### [83%] E:970 sec ETA:274 min
writing records: ##### [83%] E:822 sec ETA:274 min
writing records: ##### [84%] E:973 sec ETA:259 min
writing records: ##### [84%] E:1296 sec ETA:259 min
writing records: ##### [85%] E:2126 sec ETA:531 min
writing records: ##### [85%] E:1262 sec ETA:531 min
writing records: ##### [86%] E:1120 sec ETA:261 min
writing records: ##### [86%] E:966 sec ETA:261 min
writing records: ##### [86%] E:985 sec ETA:261 min
writing records: ##### [87%] E:1125 sec ETA:243 min
writing records: ##### [87%] E:1009 sec ETA:243 min
writing records: ##### [88%] E:1046 sec ETA:209 min
writing records: ##### [88%] E:1436 sec ETA:209 min
writing records: ##### [89%] E:2160 sec ETA:396 min
writing records: ##### [89%] E:1371 sec ETA:396 min
writing records: ##### [90%] E:1135 sec ETA:189 min
writing records: ##### [90%] E:1027 sec ETA:189 min
writing records: ##### [90%] E:1084 sec ETA:189 min
writing records: ##### [91%] E:1187 sec ETA:178 min
writing records: ##### [91%] E:1058 sec ETA:178 min

Release40130 < IGIRelease < TWiki

```
writing records: ##### [ 92%] E:940 sec ETA:125 min
writing records: ##### [ 92%] E:1480 sec ETA:125 min
writing records: ##### [ 93%] E:1514 sec ETA:176 min
writing records: ##### [ 93%] E:1778 sec ETA:176 min
writing records: ##### [ 94%] E:1583 sec ETA:158 min
writing records: ##### [ 94%] E:1494 sec ETA:158 min
writing records: ##### [ 95%] E:1531 sec ETA:127 min
writing records: ##### [ 95%] E:1003 sec ETA:127 min
writing records: ##### [ 95%] E:964 sec ETA:127 min
writing records: ##### [ 96%] E:1715 sec ETA:114 min
writing records: ##### [ 96%] E:1425 sec ETA:114 min
writing records: ##### [ 97%] E:1340 sec ETA:67 min
writing records: ##### [ 97%] E:1059 sec ETA:67 min
writing records: ##### [ 98%] E:1181 sec ETA:39 min
writing records: ##### [ 98%] E:1113 sec ETA:39 min
writing records: ##### [ 99%] E:1104 sec ETA:18 min
writing records: ##### [ 99%] E:1089 sec ETA:18 min
writing records: ##### [100%] E:1116 sec ETA:0 min
Found 22258856 raw records, inserted in jobTransSummary:22214183
Elapsed time:272079 Rec/sec:81.6461
Done.
```

Restart dgas services :

```
[root@cert-13 ~]# /etc/init.d/dgas-hlrd restart
chown: `dgas:dgas': invalid user
Stopping HAD... [ OK ]
Stopping HLR listener:/var/lock/dgas/dgas_hlrd.lock (pid 13[ OK ]
Stopping Batch Transaction manager:/var/lock/dgas/dgas_hlr_[ OK ]ck (pid 13911)
Stopping urForward:/var/lock/dgas/dgas_hlr_urforward.lock ([ OK ]2)
Initializing DGAS HLR....Locking other instances out.
Initializing database, this operation can take minutes to hours to complete depending on the size
Starting HLR listener: [ OK ]
Starting Batch Transaction manager: [ OK ]
Starting urForward: [ OK ]
Starting DGAS HAD... [ OK ]
```

Check databases:

```
mysql> use hlr;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

```
Database changed
mysql> select count(*) from trans_in;
+-----+
| count(*) |
+-----+
| 23462895 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select count(*) from jobTransSummary;
+-----+
| count(*) |
+-----+
| 22214260 |
+-----+
1 row in set (0.00 sec)
```

Forward Test:

Install a Second Level HLR For this test a second level HLR server has been installed in Bologna the name of the host is:

Forward Test:

dgas-test-vm02.cnaf.infn.it

Change the conf file in First Level HLR : Ensure you have the variables sendRecordsStartDate and sendRecordsEndDate correctly set

```
[root@cert-13 ~]# cat /etc/dgas/dgas_hlr.conf | egrep -v '^$|^#'
hlr_sql_server = "localhost"
hlr_sql_user="dgas"
hlr_sql_password="omit"
hlr_sql_dbname = "hlr"
hlr_tmp_sql_dbname = "hlr_tmp"
hostProxyFile = "/tmp/hlrHostProxyFile"
hlr_user = "root"
hlr_def_port = "56568"
dgas_var_dir = "/var/"
hlr_def_log="/var/log/dgas/dgas_hlrd.log"
hlr_qmgr_def_log="/var/log/dgas/dgas_hlr_qmgrd.log"
hlr_def_lock="/var/lock/dgas/dgas_hlrd.lock"
hlr_qmgr_def_lock="/var/lock/dgas/dgas_hlr_qmgrd.lock"
hlr_had_def_lock="/var/lock/dgas/dgas_hlr_had.lock"
systemLogLevel = "6"
accountCheckPolicy = "lazy"
hlr_qmgr_expPeriod = "600"
hlr_qmgr_tPerIter="20"
hlr_qmgr_pollPeriod = "30"
thread_number = "20"
maxItemsPerQuery = "5000"
authUserSqlQueries = "false"
jtsCommandLock = "/var/lock/dgas/hlrTranslateDb.lock"
sendRecordsStartDate = "2006-01-01"
sendRecordsEndDate = "2013-01-01"
recordsPerConnection="6000"
urForwardLock="/var/lock/dgas/dgas_hlr_urforward.lock"
urForwardLog="/var/log/dgas/dgas_hlr_urforward.log"
forwardPeriod="10800"
serversFile="/etc/dgas/dgas_2lservers.conf"
translateQueryLenght="1"
```

```
[root@cert-13 ~]# cat /etc/dgas/dgas_2lservers.conf
dgas-test-vm02.cnaf.infn.it
```

From the first Level HLRrestart the hlrd services:

```
[root@cert-13 ~]# /etc/init.d/dgas-hlrd restart
chown: `dgas:dgas': invalid user
Stopping HAD... [ OK ]
Stopping HLR listener:/var/lock/dgas/dgas_hlrd.lock (pid 23[ OK ]
Stopping Batch Transaction manager:/var/lock/dgas/dgas_hlr_[ OK ]ck (pid 23535)
Stopping urForward:/var/lock/dgas/dgas_hlr_urforward.lock ([ OK ]6)
Initializing DGAS HLR...Locking other instances out.
Initializing database, this operation can take minutes to hours to complete depending on the size
Starting HLR listener: [ OK ]
Starting Batch Transaction manager: [ OK ]
Starting urForward: [ OK ]
Starting DGAS HAD... [ OK ]
```

Send a reset form First Level HLR

```
/usr/libexec/dgas-hlr-urforward -r
```

Have a look in log file:

Forward Test:

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```
[root@cert-13 ~]# tail -f /var/log/dgas/dgas_hlr_urforward.log
2012 Aug 02 13:58:19 (5):Log level:6
2012 Aug 02 13:58:19 (4):Start sending records (sendRecordsStartDate) from:2006-01-01
2012 Aug 02 13:58:19 (4):Sending until (sendRecordsEndDate):2013-01-01
2012 Aug 02 13:58:19 (4):Number of record sent per iteration (recordsPerConnection):6000
2012 Aug 02 13:58:19 (6):serviceVersion():_hldrDb.errNo=0,
2012 Aug 02 13:58:19 (4):Contacting:dgas-test-vm02.cnaf.infn.it
2012 Aug 02 13:58:19 (3):Entering getInfo()
2012 Aug 02 13:58:19 (6):query:SELECT max(id) FROM jobTransSummary
2012 Aug 02 13:58:19 (4):Entering contactServer(dgas-test-vm02.cnaf.infn.it)
2012 Aug 02 13:58:19 (5):server parameters:
2012 Aug 02 13:58:19 (5):serverVersion:4.0.13
2012 Aug 02 13:58:19 (6):acceptRecordsStartDate:2006-01-01
2012 Aug 02 13:58:19 (6):acceptRecordsEndDate:2017-01-01
2012 Aug 02 13:58:19 (6):recordsPerConnection:6000
2012 Aug 02 13:58:19 (5):urSourceServer:
2012 Aug 02 13:58:19 (5):remoteRecordId:
2012 Aug 02 13:58:19 (5):recordDate:
2012 Aug 02 13:58:19 (5):recordInsertDate:
2012 Aug 02 13:58:19 (5):lastInsertedUniqueChecksum:
2012 Aug 02 13:58:19 (4):Server answer:dgas-test-vm02.cnaf.infn.it
2012 Aug 02 13:58:19 (6):Entering sendUsegeRecords
2012 Aug 02 13:58:19 (6):query:SELECT max(id) FROM jobTransSummary
2012 Aug 02 13:58:19 (6):query:SELECT min(id),max(id) FROM jobTransSummary WHERE date >='2006-01-
2012 Aug 02 13:59:54 (6):Performing query:SELECT * FROM jobTransSummary WHERE id >=1 AND id < 600
2012 Aug 02 13:59:54 (4):Entering contactServer(dgas-test-vm02.cnaf.infn.it)
2012 Aug 02 14:00:25 (5):Percentage of sent records:0.0270124,ETA:114731 secs
2012 Aug 02 14:00:25 (6):Performing query:SELECT * FROM jobTransSummary WHERE id >=6001 AND id <
2012 Aug 02 14:00:26 (4):Entering contactServer(dgas-test-vm02.cnaf.infn.it)
...
```

-- SergioTraldi - 2013-01-30

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