

Test Plan

Objectives:

- Check Installation PATH - These MUST be compliant with EPEL rules. Configuration files should be consistent with new paths.
- Check Active MQ record publishing work from CE to First Level HLR.
- Check Legacy record publishing work from CE to First Level HLR.
- Check that numNodes get correctly published with both transport layers.
- Check correct functionalities for dgas-hlr-translatedb
- Check correct functionalities for dgas-hlr-populateJobTransSummary
- Check that LAZY account check policy is working
- Test must assure compatibility between 3.4 sensors - 4.0 1LHLR, 4.0 sensors - 3.4 1LHLR, 3.4 1LHLR - 4.0 2LHLR, 4.0 1LHLR 3.4 2LHLR, 4.01LHLR - 4.0 2LHLR
- Check new algorithm for first to second Level HLRs

Detailed tests:

Installation:

- C1) Sensors 4.0 SL5 x86_64 -> CE
- H1) 1L Server 4.0 SL5 x86_64 - > HLR
- H2) 2L Server 4.0 SL5 x86_64 -> HLR2L
- C2) Sensors 3.4 SL4 ia32 -> CE
- H3) 1L Server 3.4 SL4 ia32 -> HLR
- H4) 2L Server 3.4 SL4 ia32 -> HLR2L
- B1) (AMQ Broker)

Installation

- 1) H1 Installation: check that files get installed under /usr/... /etc/dgas/ and /var/
No files to be installed under /opt/glite/

no files required by configurations under /opt/glite

3) CE preparation.

3.1) Copy LRMS and BLAH accounting dirs from a production CE(keep timestamps!) on C1 and C2. Point configuration files to that dirs.

4) Test

Prerequisites:

A) CE SL4 ia32 (C2)

B) CE SL5 x86_64 (C1)

C) HLR SL5 X86_64 (H1)

D) HLR SL4 ia32 (H3)

E) HLR2L SL4 ia32 (H4)

F) HLR2L SL5 x86_64 (H2)

4.0) Configure HLR1L (H1,H2) with Lazy account check policy

4.1) Configure CE (C1,C2)to publish (legacy) -> HLR1L (H1)

4.1.1) Publish record set

4.1.2) Check:

Records get published,
records have grid information (depending on the source this may apply to all or just a subset),
records have numNodes

4.2) Configure CE (C1,C2)to publish (legacy) -> HLR1L v3.4 (H3)

4.2.1,4.2.2) Repeat tests 4.1.1,4.1.2) (Ensures Cross platform compatibility)

4.2.3) Make a backup of the HLR1L (H3) Database (B1). It will be necessary in further tests.

4.3) Configure CE (C1) to publish (ActiveMQ) -> HLR1L (H1)

4.3.x) scratch database and repeat tests 4.1.1 -> 4.1.2

4.4) Test communication HLR1L -> HLR2L

4.4.1) Configure record forward H1,H3 to H4 (tests compatibility 3.4 and 4.0)

1LHLR to 3.4 2LHLR)

4.4.2) Configure record forward H1,H3 to H2 (tests compatibility 3.4 and 4.0
1LHLR to 4.0 2LHLR)

4.4.2.1) Check that in case H1 to H2 the new algorithm is used.

5) HLR 1L Tests - Upgrade

Prerequisites:

HLR SL4 ia32 (H3)

Backup of HLR database (B1) (Test 4.2.3).

5.1) UPGRADE Installation

5.1.1) Install 4.0.x RPMs, ripristinate B2 backup, proceed with DB upgrade (command translatedb). Check that jobTransSummary has the numNodes field and the database contents match.