How to run ircDDB on a multi-homed gateway without using DSM

This description should give you an idea how to run ircDDB on a multi-homed gateway, which is a gateway running OpenG2 and connected to a Trust system.

This solution has been tested at several gateways of the M-trust network. No database issues have been reported by the responsible local M-trust admins.

To our knowledge the solution described here has not been approved by the M-Trust admin team yet.

Please inform your local Trust-admin about your tests before you start to run ircDDB!

Background information:

There are 2 main versions of ircDDB clients available:

- ircDDB for multi-homed systems, which means systems connected to a trust server.
  Most of the current active systems are connected to the US-trust network.
  These systems usually do all run DStarMonitor.
- ircDDB-standalone for systems which are running without any trust server connection.

The big difference between this solutions is:

- In the multi-homed solution LastHeard information are reported by the gateway using DStarMonitor independently from the ircDDB client.
- In the standalone solution ircDDB can get that information from UDP port 12346 of the OpenG2 DStar-Gateway software (dsgwd) and reports it itself using the IRC channel.

If a gateway is connected to a trust system, UDP port 12346 supplied by dsgwd is already used by dsipsvd or something equivalent, which is the part of OpenG2 package talking to the trust system. The port cannot be used twice, so ircDDB cannot use it and we need DSM or something similar as an alternative source for that data.

But there is another solution available how to utilize ircDDB-standalone:
a special version of OpenG2/dsgwd which offers 2 UDP ports supplying the same LastHeard information parallel.
This dsgwd version allows ircDDB to run parallel to software like dsipsvd or any other interface to trust systems !

Here the way how to install that special solution:

1. Request an account for your gateway, this is necessary for installation!

2. Install ircDDB-standalone
   Use this documentation:
   http://db0fhn.efi.fh-nuernberg.de/doku.php?id=projects:dstar:ircddb:ircddb-linux-g4klx

   Use this script to install and configure ircDDB-standalone automatically:
   http://download.ircddb.net/ircddb-standalone-linux/install/ircDDB-install-standalone.sh
   - or –
   install ircDDB-standalone manually using this package:
   http://download.ircddb.net/ircddb-standalone-linux/install/install2-ircddb-standalone.tgz

3. Backup dsgwd and dsgwd.conf from your OpenG2 installation.

4. Get the special 2-Port-version of dsgwd here:
   http://download.ircddb.net/ircddb-standalone-linux/dsgwd2p.tar.gz

5. Edit the file dsgwd.cfg.
   Find this lines:

   ```
   # For "Last Heard" renewals
   PORT_RENEWALS=12346
   ```

   Add a line which defines the second UDP port for ircDDB, it is called
   "PORT_RENEWALS_IRCDDB" and it defaults to 12347.
   The result should look like this:

   ```
   # For "Last Heard" renewals
   PORT_RENEWALS=12346
   PORT_RENEWALS_IRCDDB=12347
   ```

6. Edit the ircddb.properties file and change the udp_port from 12346 to 12347:

   ```
   #mheard_udp_port=12346
   mheard_udp_port=12347
   ```

After these changes your gateway software will use UDP port 12346 like before and ircDDB will be hooked on port 12347, both getting the same data.

There is no other change than the second port supplied by dsgwd.
The dsgwd 2 port-version is based on dsgwd rev. 2.50 from KI4LKF/DG1HT as provided in the files area of the Yahoo-Group "pcrepeatercontroller" (2010/07/17).

Sample ircDDB.properties

---

version=standalone

irc_server_name=group1-irc.ircddb.net
irc_server_port=9007
irc_channel=#dstar

irc_password=***<your password>***
rptr_call=***<your repeater callsign (lower case)>***

debug=0

mheard_udp_port=*12347*

rptr_fix_tables=yes
rptr_fix_unsync_gip=no
rptr_insert_users=yes

ext_app=net.ircDDB.dv.RptrStandAloneApp

jdbc_class=org.postgresql.Driver
jdbc_url=jdbc:postgresql://127.0.0.1:5432/dstar_global
jdbc_username=dstar
jdbc_password=dstar123

(Source: http://download.ircddb.net/ircddb-standalone-linux/ircDDB.properties.sample2p)

ircDDB provides real online routing information independent from the trust system, even without any trust system.

With ircDDB the routing information is available at your partner's gateway before you release the PTT, so the answer will be addressed correct immediatly, even when roaming during mobile use.

No additional user registration is necessary, ircDDB is no trust system.
Registration requirements are given by the involved trust systems only.

Please remember:

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