How to run ircDDB-standalone on gateways without using DSM

This description should give you an idea how to run ircDDB on a gateway running OpenG2 and no D-Star-Monitor.

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.

Background information:

There are 2 main versions of ircDDB clients available:

- ircDDB for systems which run DStarMonitor.
  Most of the current active systems are using Icom-Hardware and are connected to the US-trust network.
- ircDDB-standalone for systems which are running OpenG2 and no D-StarMonitor.

The big difference between this solutions is:

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

We do offer a modified version of *dsgwd* for this setup, which supplies UDP-port 12347 for ircDDB. Please only you that *dsgwd* version, it supplies different data on port 12347 than on the standard UDP-port 12346!

Our *dsgwd* is a 1-to-1 replacement for the OpenG2 dsgwd 2.50 and does not need any additional configuration.

It is supplied including documentation and sources.

Here the way how to install that special solution:

1. Request an account for your gateway using the registration form on our website www.ircddb.net.
   This is important, you will need the account information during installation!

2. Install your repeater and your OpenG2 gateway and configure it as necessary.
   Note that you only need "*dsgwd*" from the OpenG2 package to run a fully functional gateway, no trust server components.
   However, with ircDDB you may work with or without trust server connectivity, it is your choice.

3. Verify that your system works fine before you install the ircDDB add-on.

4. There are 2 different ways to install ircDDB-standalone:
   a) Use our install-script and configure ircDDB-standalone automatically:
      http://download.ircddb.net/ircddb-standalone-linux/install/ircDDB-install-standalone.sh
      This will install ircDDB and will also replace your existing *dsgwd* by the necessary modified version (the original version will be saved).

      - or –

   b) install ircDDB-standalone manually using this package:
      http://download.ircddb.net/ircddb-standalone-linux/install/install2-ircddb-standalone.tgz
      and the documentation from our Wiki-page
      http://db0fhn.efi.fh-nuernberg.de/doku.php?id=projects:dstar:ircddb:ircddb-linux-g4klx

5. Backup *dsgwd* from your OpenG2 installation.
   Get the special version of *dsgwd* here:
   http://download.ircddb.net/ircddb-standalone-linux/dsgwd_ng.tgz

6. If you are running *dstar_syncIP_to_g2* replace it by the version supplied here:
   http://download.ircddb.net/ircddb-standalone-linux/dstar_syncIP_to_g2_ng.tgz
   This will switch off reporting of database entries to the trust server together with routing information which are created by ircDDB for local usage only.

dsgwd_ng and *dstar_syncIP_tog2_ng* are based on OpenG2 rev. 2.50 from KI4LKF/DG1HT as provided in the files area of the Yahoo-Group "pcrepeatercontroller" (2010/07/17).

Note that the install script currently does not include automatic start and stop functionality.
ircDDB can be started and restarted (stopped+started) using “/opt/ircddb/start.sh”.
It can be stopped using “/opt/ircddb/stop.sh”.

ircDDB should be stopped before stopping postgres, otherwise it will block it.
It should be started as last part of the dstar_gw.

A short view to the ircDDB.properties file:

```
version=standalone
irc_server_name=<IRCSRV>
irc_server_port=<IRCPORT>
irc_channel=<IRCCHAN>

irc_password=<PASSWORD>
rptr_call=<USERNAME>

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
```

Please note the parameter marked in red!

If you run a system which is <u>not connected to any trust server</u>, this *rptr_insert_user* MUST be set to “yes” otherwise ircDDB won’t work.
If you run a system <u>connected to a trust server</u> you should replace *dstar_syncIP_to_g2* by the special ng-version, it allows to also set *rptr_insert_user* to” yes”.

If set to “no”, all users have to be registered in both trust systems used in a QSO.

ircDDB provides a real-time communication platform between D-Star-Gateways.
This is used to share routing information between gateways independent from 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.

A lot of other new features based on that online communication platform are planned.

Please find a lot more information at http://www.ircddb.net