

## **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 a UDP port of the OpenG2 DStar-Gateway software (dsgwd) and reports it itself using the IRC channel.

We offer a modified version of dsgwd for this setup, which offers a second UDP-port 12347 for ircDDB. Please only you this dsgwd, in future version this port will offer different data than the standard UDP-port 12346!

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

It is supplied including documentation and source.

### 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](http://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
3. Verify that your system works fine.
4. Install ircDDB-standalone.  
There are 2 different ways :  
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 2-port-version. The original version will be saved.  
  
- or -  
  
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 and dsgwd.conf from your OpenG2 installation.
6. Get the special 2-Port-version of dsgwd here:  
<http://download.ircddb.net/ircddb-standalone-linux/dsgwd2p.tar.gz>

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).

Note that the script currently does not include automatic start and stop functionality.  
ircDDB can be started using "/opt/ircddb/start.sh and stopped using "killall -u ircddb".

It should be stopped before stopping postgres, otherwise it will block it.  
It should be started as last part of the dstar\_gw.

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:**

**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!**