ircDDB-Gateway

Online installation using YUM

Please note that ircDDBGateway requires a DStar-repeater. This might either be a software repeater built from modules of the G4KLX PCRepeaterController package, or a typical Icom Repeater with a controller ID-RP2C and one or more Icom repeater modules. A combination of hard- and software repeater is also supported.

ircDDBGateway is available for Windows and Linux systems from the G4KLX website
http://db0fhn.efi.fh-nuernberg.de/~g4klx/

Beta versions are only availble in the files section of the Yahoo Group “ircDDBGateway”
http://groups.yahoo.com/group/ircDDBGateway

The Windows version is provided as a self installing executable, the Linux version is available in form of a zip file with the source code tree for self compilation and installation.

A comfortable way to install the ircDDBGateway software on Linux systems is to use the package manager YUM for full automatic online installation.
You do not need any development tools, no additional libraries have to be searched and installed manually, no compilation of source code, no experience with development work, neither resources on your gateway system, nor a special development system.

An ircDDBGateway YUM package is available for CentOS5.
Why YUM? Why CentOS5?

- CentOS is one of the 3 leading Linux distributions worldwide
- CentOS5 is the standard Linux distribution for DStar gateways, running on more than 70% of all gateways worldwide.

CentOS5 is available for download and on CDs/DVDs.
Please check http://www.centos.org to find more details and mirrors for downloads.

Note that we composed and tested the package with CentOS**5**, but already have got feedback that the installation also works with CentOS6 .
Please find information on additional requirements for CentOS6 below.

Step 1: Adding the ircDDB repository server

At first you have to run the following command on your gateway system once:

```
curl http://group1-update.ircddb.net/ircDDB/centos55/ircddb.repo -o /etc/yum.repos.d/ircddb.repo
```

Take care that you copy and execute the complete line on your system!

This command copies a configuration file with information about the ircDDB update servers to your yum repos directory.
You will not need to execute this command again later for any update.

(You might skip this step if you are upgrading an IcomG2 gateway with the ircDDB-add-on installed from a yum package. In that case you have already added the ircDDB repository.)

For CentOS6 only:
John K7VE reported that he was able to get the installation also run on CentOS**6.2** after adding another rpm source using this command:

```
rpm -Uvh http://download.fedoraproject.org/pub/epel/6/i386/epel-release-6-5.noarch.rpm
```

Step2: Clean your expire-cache

```
yum clean expire-cache
```

Step 3: Install the ircDDBGateway package

```
yum install ircddbgateway
```

Say “yes” to install the software.

Please note that you might get dependency errors for wxGTK/wxwidgets.

In that case please start with Step 2 again, in the next run all dependencies should be resolved, all necessary libraries be downloaded and installed.
The reason for this is that during the 1st run on some systems a package with new repo server addresses needs to be installed to find wxGTK, but it will not be used in the same run.

Step 4: Configure ircDDBGateway

After the first installation you will be asked to start the command line configuration tool `ircddbgw_conf`.

Configuration in text mode:

The language can be set with selection 1 of the tool. This is the language for the voice-announcements of the gateway as well as for the language of the menus of the configuration tool. However, most translations for the menus do not yet exist, so it defaults to English.
After that the initial setup can be started using selection “2”. This option will lead you through all

preferences menus.
The script will try to offer the best values for selection by searching other existing configurations. This is very useful when upgrading from IcomG2 software with or without ircDDB-addon.

Settings can be corrected and changed at any time, input is stored immediate after you close the line and will be offered for default selection during next run.

Configuration in GUI mode:

You might configure ircDDBGateway and TimeServer in GUI mode using an X session on the gateway PC or from remote. An easy way from remote is using VNC.
(You can install a VNC server with "yum install vnc-server". After that you can access the gateway system in GUI mode from remote using a free VNC client like UltraVNC for your favorite OS).

Open a terminal window and start "ircddbgateway".
If you use special locale settings in GUI mode you should start the software with the script `/usr/local/bin/ircddbgateway.sh`

⇒Configure ircDDBGateway and TimeServer like described in the configuration manual. You may find the documentation in different languages in the folder "Documentation" of the FILES section at the Yahoo Group "ircDDBGateway".
http://groups.yahoo.com/group/ircDDBGateway/files/Documentation/

If the configuration has been finished and the system runs properly use EXIT in the File menu to stop and leave the software.

Step 5: Start ircDDBGateway in daemon mode

You may start the daemon from the configuration tool `ircddbgw_conf` with option 30, the timeserver with option 33, or with the commands:

```
/sbin/service ircddbgateway start
/sbin/service timeserver start
```

The start script may be activated with ircddbgw_conf option 20 and 22, deactivated with option 21 and 23 or using the commands
activate:

```
/sbin/chkconfig --add ircddbgateway
/sbin/chkconfig --add timeserver
```

deactivate:

```
/sbin/chkconfig --del ircddbgateway
/sbin/chkconfig --del timeserver
```

To be sure that everything works properly you might want to reboot the server and see if everything comes up.

Step 6: Update ircDDBGateway

Later updates will be installed as usual by

```
yum update ircddbgateway
```

or during a normal system update.
The update process will automatically stop the gateway, install the update and restart the gateway. It would be wise to check the configuration for possible changes and new options after each update. You can use the text based configuration tool or start ircDDBGateway in GUI mode again. Don't forget to stop the daemon before!

73

Hans, DL5DI