

DplusReport

'dplusreport' runs on the D-STAR gateway and provides a formatted display of information derived from the dplus.log file on the system. This is designed as a tool for a Net Control Station (NCS) that is running a D-STAR net – either locally or with linked systems. The information provided in the display includes:

- Current (near real time) status of the links established to any or all of the D-STAR modules on the system. Indication is provided as to the call sign and module of the far end.
- Current (near real time) status of any direct dongle connections to the system is provided. This includes only dongles directly linked to this particular D-STAR system.
- The second major portion of the display provides a sorted list of the repeaters which are participating in the net. If any user keys up and enters the system through a remote system, the repeater and list of users are included in the display.
- The repeater and user display can be 'aged' which is useful for a long running net (e.g. a real weather event). If the user call sign is displayed in 'white' then they have keyed within the previous 30 minutes. If it is 'yellow', the last key-up was 31 to 45 minutes ago. If the call is in 'red' then it has been 46 to 60 minutes since the last key-up by that station. Once it has been over 60 minutes, then the call sign is removed from the display. The idea is that if the call turns yellow or red, the NCS can call the station to determine if they are still monitoring the net or whether they have left the net.
- The third major portion of the display formats a log entry for each station key-up. The time is displayed and the four calls (MyCall, RPT1, RPT2, and URCall). Also, the 20 user message is displayed as the Name and QTH are frequently indicated in that message. There are some basic edits done on the user programming and errors are indicated if an obvious problem exists in the four call signs (e.g. URCALL is set to something illogical).
- In the sorted list of repeaters and user call signs, with each key-up, the user call sign is underlined. The underlining remains until the user enters 'CTRL-Z' on their terminal to clear all underlining. The idea here is that as the NCS is calling for quick-key check-ins from a specific geographic area, the NCS can depress 'CTRL-Z'. Then as people quick-key, their calls are underlined and the NCS knows who to acknowledge as checked-in. This feature should significantly reduce the amount of pencil and paper work required by the NCS.
- The program, dplusreport, does NOT require root level permissions as it does not perform any actions on the gateway. It only reads the dplus.log and displays relevant information.

When a permitted user logs into the gateway system, the users should "stretch" their display window to provide 80 columns and as many rows as possible in the window. I run it with my window sized to 80 columns by 60 rows. However, this will generally be limited by the font size chosen on the display.

The program can be installed into '/dstar/util/' by: (user must have 'root' privileges to install)

```
cd /tmp
curl -O http://k4dso.com/util/dplusreport-install.sh
sh dplusreport-install.sh
```

[Note: 'perl-libwww-perl' and 'perl-File-Tail' are both prerequisites for the dplusreport install. 'perl-File-Tail' is available at <http://k4dso.com/util/perl-File-Tail-0.99.3-1.2.el5.rf.noarch.rpm>]