

Using dstar part 1 by W4EDN

- 1: get registered with you local system via the internet if not done so already.
- 2: setup your radio to get to the repeater
 - select VFO mode...menu, find V/M touch it to set vfo or memory mode
 - set your freq and offset. easiest way is to touch the mhz area, select inp and key it in , e.g. 146.940.
 - Set DV mode (touch the mode indicator for a list)
 - press the DR button
 - touch the from field, select your local repeater, then touch it,
 - touch the TO field, select local CQ.
 - Touch the CS button on the screen to verify your register settings.
 - Press the PTT for at least 2 secs and listen for the repeater to respond, watch the screen for error messages.

To save this in a memory channel, press menu until MW is one of the soft buttons. Then touch it. Now select the desired channel using the channel select knob (lower left), now press MW for at least 1 second, you should hear 2 beeps when it is saved.

- 3: see if your repeater is connected to a reflector.

Send the I command to the repeater and listen for a response. (See Using dstar2 for how)

- 4a: if linked, note the reflector name You will want to relnk to it if you are using another.

- 4b: if not linked setup some memory channels to Unlink, link to another reflector, and talk via a gateway. so that you can link and talk via a reflector, then Unlink when done,

---setup a channel to talk via the gateway

setup the frequency, with mode DV , offset to match you nearest DSTAR repeater.

Make sure MYCALL is correct.

Setup the 3 registers for this ,

UR = CQCQCQ

R1C = CALL OF YOUR REPEATER WITH MATCHING PORT e.g. K1HBR B

R2C = CALL of your repeater gateway e.g. K1HBR G

the port is the band you are operating, A for 1.2GHz, B for 440MHx and C for 144MHz

Save to a memory channel e.g.9

---Setup a channel to Unlink

3 registers

UR= U (U IN THE 8TH POSITION)

R1 = CALL OF YOUR REPEATER WITH MATCHING PORT e.g. K1HBR B

R2 = CALL of your repeater gateway e.g. K1HBR G

Save to a memory channel e.g.10

--Setup a channel to send a link command to your repeater.

3 registers UR = REF054CL (if REF054C was the reflector your repeater was linked to)

R1 = CALL OF YOUR REPEATER WITH MATCHING PORT e.g. K1HBR B
R2 = CALL of your repeater gateway e.g. K1HBR G

Save to a memory channel e.g.11

--Setup a channel to get Info

3 registers UR = I (I IN THE 8TH POSITION)

R1 = CALL OF YOUR REPEATER WITH MATCHING PORT e.g. K1HBR B

R2 = CALL of your repeater gateway e.g. K1HBR G

Save to a memory channel e.g.12

how to use a reflector.

Select your local cq channel and speak your intentions.

e.g. w4edn linking to ref054c, will unlink when done.

Send the I command to see if your repeater is linked

A send the unlink command (U in the UR register)

B send the link command to the reflector (e.g. REF054CL in the UR register)

C switch to your gateway cq channel an talk. (has CQCQCQ in UR register), with a gateway in R2C

D: when done, unlink and link back to the reflector it was linked to if any.

Lets say I want to connect to REF030C TO TALK TO YOU.

In my machine switch to channel 13 (I command) to see if linked

Press PTT for 2 sec and listen, my repeater says "linked to R E F 0 5 4 C"

I switch to channel 9 (has CQCQCQ in UR) and say "w4edn connecting to ref030c, will unlink when done."

switch to channel 14 (U in UR) , press PTT for 2 secs. Repeater says " unlinked".

switch to channel 16 (HAS REF030CL in UR) , press PTT for 2 secs, repeater responds "linked to R E F 0 3 0 C"

switch back to channel 3, and make my call "n1bns from w4edn" this now going through reflector.
And if you are connected to same reflector, you hear it.

When done, switch to channel 14 (U in UR) , press PTT for 2 secs.

Switch to channel 17 (has REF054CL in UR), PTT for 2 secs (put back as I found it.)

switch to channel 3, "w4edn, done"

That's it.

If you touch CS you will see contents of the registers UR, R1 AND R2.

In my case, UR has either CQCQCQ, I, U, REF030CL, or REF054CL

R1 always has KI4WXS C

R2 always has KI4WXS G.