



FIVE AND NINE PLUS

THE OFFICIAL NEWSLETTER
OF THE
APPLEDORE AND DISTRICT
AMATEUR RADIO CLUB

Club Callsigns: G2FKO and GX2FKO
Web Site : www.adarc.co.uk

CLUB'S OFFICERS

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June 2024

EDITORIAL

This month's meeting on **June 17th** is another **Natter Night**. A chance to catch up with everyone's news and perhaps swap ideas. Your Committee is working on a number of possibilities for future Meetings - details of which will appear in the 5&9 Newsletter. Your Committee would be interested to hear views from members as to what format they would like to see for Club Meetings and any ideas for the future.

Finally, the North Devon Repeater Group are looking for a suitable site or host station for a UHF DMR Repeater in the Barnstaple area. If interested contact Rob at g0hfn@bosten.co.uk Terry (G4CHD)



LOCAL REPEATERS/GATEWAYS

Frequencies relate to Repeater and not to your radio

GB3DN VHF FM/C4FM Repeater - Stibb Cross

Tone 77Hz (for analogue FM)
TX 145.6375 RX 145.0375
Keeper Tony G1BHM
Default Digital Connection : Wires-X Southern Fusion
<http://www.g0rql.co.uk/gb3dn.htm>

GB3ND UHF DMR Repeater - Holsworthy Beacon

TX 439.7375 RX 430.7375 colour code 1
Slot 1 local RF Slot 2 SW Cluster
Keeper Tony G1BHM

GB7FB UHF DMR Repeater - Bideford

TX 439.475 RX 430.475 Colour code 5
Slot 1 Local RF/DoD Slot 2 SW Cluster
Keeper Drew M0MFS

GB3LZ VHF FM/C4FM Repeater - Winkleigh

Tone 77Hz (for analogue FM)
TX 145.6625 RX 145.0625
Digital Connection : Wires-X Southern Fusion - fixed
Keeper Simon G4MQQ

GB7LZ UHF DMR Repeater - Winkleigh

TX 430.9125 RX 438.5125 Colour code 1
Slot 1 DMR Southern Fusion Slot 2 Local/CQ UK/DoD
Keeper G4MQQ

MB6DT VHF Fusion Gateway - Barnstaple

Frequency 144.8125 MHz.
Gateway Keeper Darren (2E0LVC)
Operational

GB7TG - UHF DMR Repeater - Wembworthy

TX 430.9750 RX 438.5750 Colour Code 7
Default Connection : Slot 1 Local/DoD Slot 2 SW Cluster
Keeper G7SOJ

GB3NX VHF FM AllStar Repeater- Holsworthy Beacon

Tone 77Hz
Repeater TX 145.5875 RX 144.9875
Connection SW AllStar Network (SWAN)
Keeper G1BHM

CLUB MEETINGS

Meetings are held at the **Appledore Football Social Club** starting at 7.30pm for 8.00pm. Visitors always welcome. For further information, please contact the Secretary John. Presently, Meetings take the form of a general Natter Night over a cuppa, however once details are known of any talks etc, an announcement will appear in the Club Newsletter.

LOCAL NETS

Weekday Zepp FM Net: Mon/Tues/Thurs/Fri :
145.450MHz - 4pm - 5pm
Wed via GB3DN - 4pm - 5pm
Net Control : Len (M0SXY)

2m Elevenses FM Net: Mon/Wed/Fri :
11 - 12.00 noon via GB3DN
Net Control ; Mike (G3PGA)

Friday Night 2m Net: Friday : 145.450 FM, 8 - 9pm

Sunday Top Band Net: Sunday 1.860 MHz
9.30 - 10.15am
(LSB - 32W pep max)

2m SSB Nets: Wed: 8 - 9pm 144.260MHz
USB SSB (Vertical polarised)
Sun: approx 10.30am (follows
Top Band Net) 144.260MHz
USB SSB (Vertical polarised)

Sunday FM Net: Sunday: 11 to noon via GB3DN
Net Control : Chris (G0FJY)

**Note :- FM Nets which use GB3DN as shown above
will continue despite the recent changes.
GB3DN is disconnected from the Wires-X/
Southern Fusion Room just before the listed
start and end of each FM Net.**

REPORT ON OUR MAY MEETING

This was a Natter Night and a chance to catch up over a cuppa. It's was also an opportunity to get advice/help problems you might have as other members are always eager to help.

DMR ARTICLE

Finally a publication from the North Devon Repeater Group follows on the wonders of Linking for regional nets etc. which again makes very interesting reading.

Enjoy the read

Terry (G4CHD)

GB7FB

Digital

Bideford DMR Repeater

Linking GUIDE

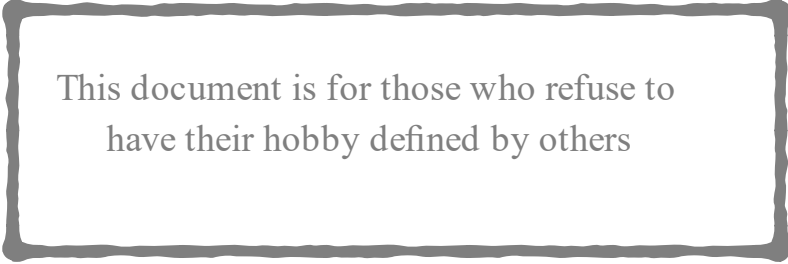
Linking repeater to repeater for regional nets



Linking for beginners



GB7FB Bideford is a North Devon Repeater Group repeater hosted by Drew MØMFS



This document is for those who refuse to
have their hobby defined by others

GB7FB

Digital

Bideford DMR Repeater

DMR is the only digital mode in regular use by Radio Amateurs able to interweave two separate channels through one repeater simultaneously. These channels are imaginatively named slot 1 and slot 2. Slot 1 is local RF to RF and slot 2 does exactly the same but ALSO lights up another 18 repeaters across the South West from Cornwall to Hampshire.

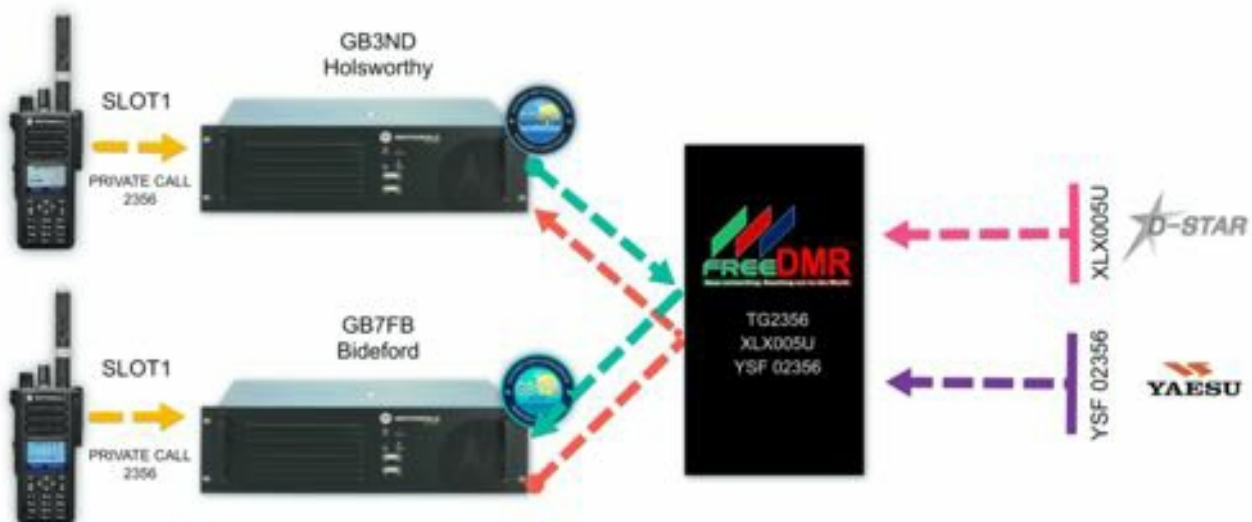
A QSO or even an impromptu net on slot 2 is all well and good but what if we wanted to run a regional net without tying up all 19 repeaters? Or perhaps we would want to pass emergency traffic across North Devon or maybe, well lots of maybe's.. You get the idea. Maybe you just want to chat to someone who only has D-Star or Fusion. Yes, that is possible too.

To keep this explanation simple we will link slot 1 of GB3ND Holsworthy to slot 1 of GB7FB in Bideford effectively forming a single super repeater with rock solid handheld coverage from East Cornwall to the beaches of Westward Ho and across to Braunton. In our example let's do it for the purposes of holding a regional digital net.

To make this a little more interesting, lets assume we have a friend who only has D-Star and we would like to include him in the regional digital net we are setting up.

Before we look at the technicalities of what we are attempting to do, lets look at an overview. We are going to link slot 1 of each repeater to a common talk group on FreeDMR using the keypad on our radio. Because they will then be using a common talk group they will be effectively linked together as one. To include our D-Star owning friend we will choose a talk group that has a bridge to the D-Star network. As it happens the talk group we are going to choose also has a bridge to YSF Fusion.

Here is a simple diagram of our new network and on the next page we will look at how we may achieve it.



GB7FB

Digital

Bideford DMR Repeater



Let's look at how we set up the network as per our diagram. Of course, in the same manner we could just use a single repeater to talk to our D-Star/Fusion owning friend shown above.

So, we are going to use private calls as commands to control each/or singular repeater(s). The button presses required vary from radio to radio so consult your radio handbook. It usually takes the form of 'Manual dial/private' call then press PTT briefly and await a reply from the repeater.

Set your radio to either GB3ND or GB7FB slot 1 as appropriate. It is, of course, good practice to make sure the repeater is not in use. Next make a private call to 5000. *Manual dial/private call, type 5000 on keyboard press PTT briefly.* The repeater should reply "Not connected".

If you get a connected message make a private call to 4000 in the same manner. The repeater will now reply "Disconnected"

Next make a private call to 2356 (2356 is chat 6 on the FreeDMR network). If you just want to talk to your D-Star owning friend they should connect to reflector XLX005U in whatever manner they use to connect to the XLX network. For YSF Fusion it would be Room 02356.

If you would like to link Slot 1 of GB3ND to Slot 1 of GB7FB for the purposes of a regional North Devon net, someone in range of each repeater should connect each in the manner above to 2356 and the repeaters will be linked. After all, they are now both using the same talkgroup. There is an inactivity disconnect time of 10mins. Don't forget to disconnect from 2356 when you have finished with a private call to 4000.

Perhaps this all sounds a little unfamiliar. Rest assured, the only slightly tricky bit is finding out how your radio makes a private call, the rest is simple.



Bideford DMR Repeater

Recap

- TG9 Slot 1 This slot has the Dial on Demand option
- Private call to 5000 Replies with linked status
- Private call to 4000 Disconnect from any linked talk group and replies with status
- 2356 Is chat 6 talkgroup on the Free DMR Network
- XLX005U Is a D-Star reflector linked to FreeDMR TG2356
- YSF 02356 Is a YSF room linked to FreeDMR TG2356

There is a short video on using dial on demand available here:

<https://tinyurl.com/DIALONDEMAND> or scan the QR code below



GB7FB
Digital

Bideford DMR Repeater



GB7FB Bideford is a North Devon Repeater Group repeater
hosted by Drew MØMFS

Please consider making a donation to support your local repeaters, GB3DN and GB3ND (GB7FB GB3NX GB3BU)

Repeater bank account details :

GB3DN Repeater Management

(select business account for account type)

Account number **72293486** Sort code **09-01-54**

reference: **Your callsign**

Alternatively, pop a cheque in the post made payable to **GB3DN REPEATER MANAGEMENT** and send to Mr D Roomes, Viewfield, Shop Cross, Milton Damerel, Holsworthy, Devon EX22 7NY. Please put your call on the rear of the cheque so we know who you are.

Further reading links

SW DMR Cluster support <http://thesouthwestcluster.co.uk/>

Apply for DMR ID <https://www.radioid.net/register>

errors and omissions to Rob GØHFN (email correct on QRZ)