

G3WSC Hotspot — How to Access

DASHBOARD: <http://pi-star.local>

The Hotspot enables a suitably programmed UHF radio to access the various digital networks online. At present only DMR is programmed on the Hotspot.

RF access frequency 438.8 MHz transmit and receive (i.e. simplex). Colour code (CC) 1, and Time Slot (TS) 2.

Program your radio talk groups (TG) as per regular repeaters.

For **Brandmeister** TGs simply use the advertised TG number, for example 9990 for the Parrot. See <https://brandmeister.network/?page=talkgroups> for details.

For **Phoenix** TGs prefix the TG number with 20xxxxx to make up seven digits. For example, to go out on TG9990 (Parrot audio test TG), program TG2009990 in your radio's code plug. The Hotspot knows that TGs prefixed with '20' and made up to seven digits with leading '0's will be directed to the Phoenix network. See <http://www.dmr-uk.net/index.php/layout/> for details.

For **FreeDMR** TGs prefix the TG number with 30xxxxx to make up seven digits. For example, to go out on TG235, program TG3000235 in your radio's CPS. The Hotspot knows that TGs prefixed with '30xxxxx' and made up to seven digits with leading '0's will be directed to the FreeDMR network. See <https://www.freedmr.uk/index.php/united-kingdom-talk-groups/> for details.

To program your rig do the following:

In the CONTACTS list add the following TGs (if not already there).

For BM add the TGs you want from this list: <http://www.dmr-uk.net/index.php/layout/> something like:

Contact name	Call Type	Call ID
1 WW	GROUP	1
2 Euro	GROUP	2
3 USA	GROUP	3
etc		
etc		
9990 Echo	PRIVATE	9990

The name is unimportant, but the call type and ID must be correct. Your code plug may have a different layout but should have the similar column headings.

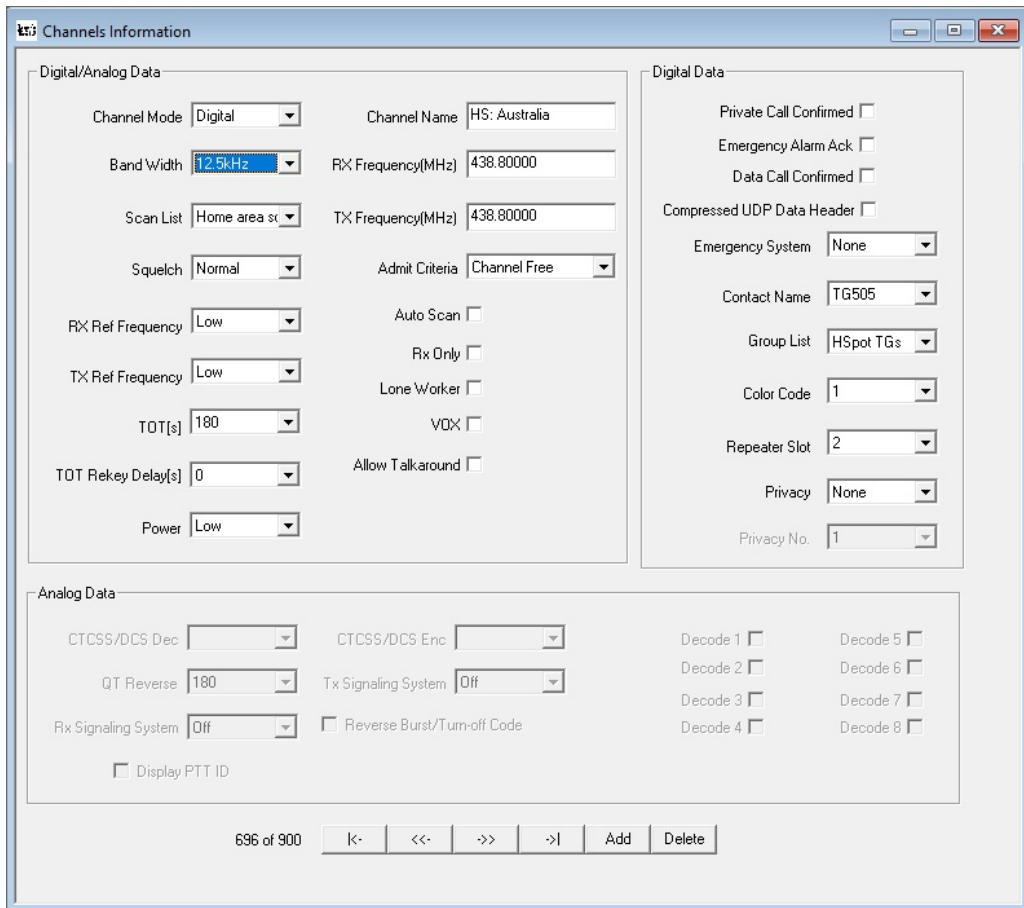
For Phoenix add those you wish from these if necessary from <http://www.dmr-uk.net/index.php/layout/>

Name	Call Type	TG ID
WORLD WIDE (CALLING)	GROUP	2000001
EUROPE (CALLING)	GROUP	2000002
WORLD WIDE ENGLISH (CALLING)	GROUP	2000013
UK WIDE - USER ACTIVATED 1	GROUP	2000080
UK WIDE - USER ACTIVATED 2	GROUP	2000081
UK WIDE - USER ACTIVATED 3	GROUP	2000082
UK WIDE - USER ACTIVATED 4	GROUP	2000083
UK WIDE - USER ACTIVATED 5	GROUP	2000084
WORLD WIDE ENGLISH - USER ACTIVATED 1	GROUP	2000113
WORLD WIDE - USER ACTIVATED 1	GROUP	2000119
WORLD WIDE ENGLISH - USER ACTIVATED 2	GROUP	2000123
WORLD WIDE - USER ACTIVATED 2	GROUP	2000129
FREESTAR NETWORK (USER ACTIVATED)	GROUP	2023426
UK WIDE (CALLING)	GROUP	2000235
UK WIDE (CALLING / USER ACTIVATED)	GROUP	2002350
YSF CQ-UK WIRES-X (USER ACTIVATED)	GROUP	2002351
HUBNET UK (USER ACTIVATED)	GROUP	2023526
RAYNET UK (USER ACTIVATED)	GROUP	2023531
SCOTLAND CHAT (USER ACTIVATED)	GROUP	2023550
REGIONAL : SOUTH EAST ENGLAND	GROUP	2000801
REGIONAL : SOUTH WEST ENGLAND	GROUP	2000810
REGIONAL : NORTH WEST ENGLAND	GROUP	2000820
REGIONAL : MIDLANDS	GROUP	2000830
REGIONAL : EAST OF ENGLAND	GROUP	2000840
ECHO SERVER	PRIVATE	2009990

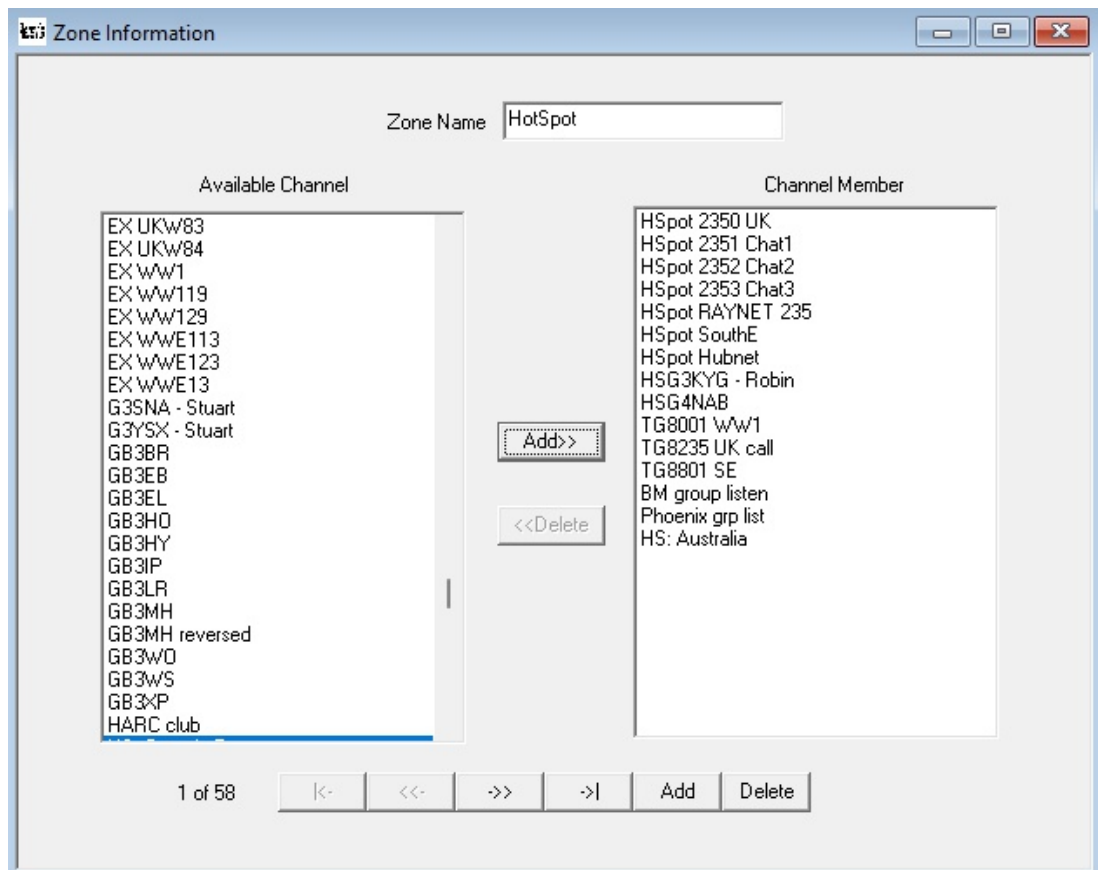
For FreeDMR network TGs add some of these from <https://www.freedmr.uk/index.php/united-kingdom-talk-groups/>

Name	Call type	TG ID
UK Central	Group	3002350
Chat 1	Group	3002351
Chat 2	Group	3002352
Chat 3	Group	3002353
Chat 4	Group	3002354
Chat 5	Group	3002355
Chat 6	Group	3002356
Isle of Man	Group	3002357
London	Group	3002358
Kernow & Jersey	Group	3002359
South West	Group	3023500
South East	Group	3023510
North West	Group	3023520
Yorkshire	Group	3023530
Ireland	Group	3023540
Scotland Chat	Group	3023550
Scotland Alba Allstar Multi	Group	3023551
Scotland East	Group	3023557
Scotland H & I	Group	3023558
Scotland West	Group	3023559
North East	Group	3023560
Wales	Group	3023570
West Midlands	Group	3023580
East Midlands	Group	3023590
OZ-DMR Chat	Group	3023595
East Anglia	Group	3023490
Echo/Parrot	Private	3009990

Then create a **CHANNEL** with each TG from each network that you wish to have on your rig. Channel name is your choice. Make it something that means something to you. For example **0999ECHO** for the echo/parrot server. You will probably only want a few of the above from each network. Your choice. There are many more TGs all around the world if you have the patience to key them all into individual channels... Below is an example of one I created on my handheld Retevis RT3 for calling up Australia.



Next create a **ZONE**, called for example **Hotspot**, and add the channels you have created into it. Save the codeplug and write it to your rig.



You're done: many happy hours of working the world!

Addendum

In addition to the above suggested code plug programming, it is worth creating a group list (perhaps called "Hspot TGs", as shown above) and adding a number of talk groups to it, then include it in the individual channel setups. This is effectively equivalent to scanning in the FM radio, except that the group list TGs are simultaneously monitored, and as soon as one of the TGs becomes active your radio will come alive. If you want to talk to the station heard, as soon as he stops transmitting (and within three seconds or so) you transmit back to him and your radio (most radios) will set itself on that TG as if you had set it manually. You can then complete the QSO in the normal manner.

Additionally, if you include TG9 in the group list, you will hear periodic beacon transmissions and occasionally other service messages from the three networks enabled on the G3WSC hotspot.

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