

DMR-SE MMDVM Configuration Instructions

The lead administrator of the **DMR-SE & NJ-TRBO DMR** radio networks (Bob, KC2CWT) is proud to announce the public deployment of a server interface for MMDVM connectivity to both of the C-Bridge systems under his control.

Unlike the previous HBLink interface, this server can support multiple different talkgroups (both dynamic & static), and has full support for both **simplex & duplex hotspots**, as well as any non-Motorola repeater that can be configured to the MMDVM protocol standard.

We all so now can Add **Hytera repeater** to this sys winch can get Tg from the C bridge

Configuring access for standard Pi-Star hotspots

Please make sure that you run an 'update' and 'upgrade' from the configuration menu in Pi-Star to make sure you have the latest dashboard binaries & host files present on your hotspot. In the 'DMR Configuration' section of the main 'Configuration' screen, choose the **HB_US_DMR-SE** server from the drop-down list & apply the changes:

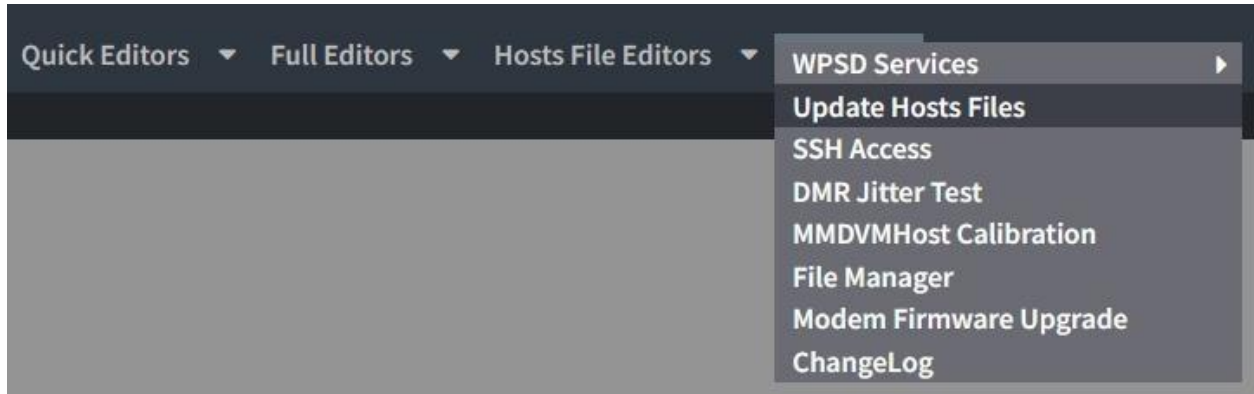
DMR Configuration	
Setting	Value
DMR Master:	HB_US_DMR-SE ▾
Hotspot Security:	<input type="text"/>
BrandMeister Network:	Device Information Edit Device (BrandMeister Selfcare)
DMR ESSID:	None ▾
DMR Color Code:	1 ▾
DMR EmbeddedLCOnly:	<input type="checkbox"/>
DMR DumpTAData:	<input checked="" type="checkbox"/>

[Apply Changes](#)

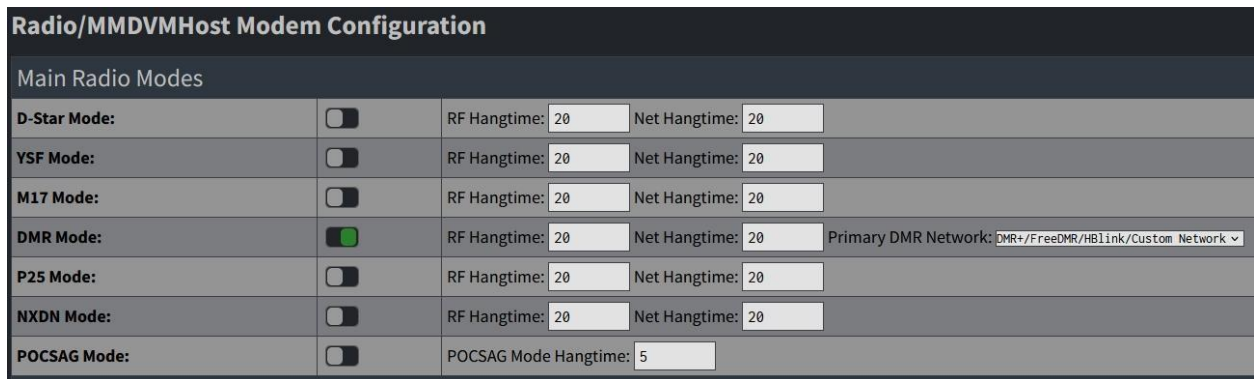
If you are planning to operate multiple hotspots on the MMDVM interface via your main DMR ID, the system full supports the ESSID functionality in use on the BrandMeister network. The latest version of Pi-Star (4.2.1) fully supports access to optional DMR master servers without having to open ports in the Pi-Star firewall anymore. Once you have connected to the server & the box is no longer 'red' at the bottom of your dashboard, key up on the talkgroup you want to use to initiate connection to the server.

Configuring access for WPSD-based hotspots

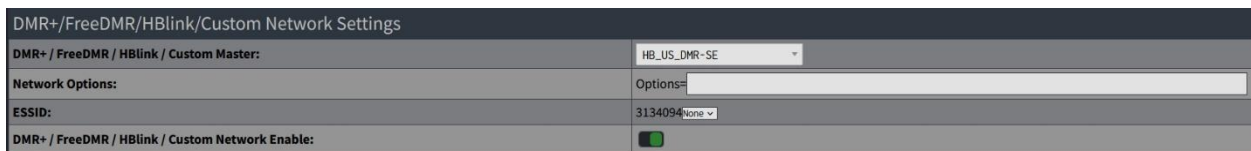
As with 'vanilla' Pi-Star, please make sure you have done any needed updates to bring the dashboard & host file binaries up to the last versions. If you need to, you can go into the 'Admin' screen, then 'Advanced' & use the 'Update Host Files' options in the 'Tool' menu:



WPSD requires one extra setting change above the standard Pi-Star configuration, and that's to pick a dedicated server interface first (this avoids needing to re-program your radio with alternative talkgroups due to WPSD's use of the DMRGateway system). Set your hotspot to use the **DMR+/FreeDMR/HBLink** option in the drop-down menu:



You can then enable that server functionality & choose the **HB_US_DMR-SE** server option:



Configuring access for openSPOT devices

The configuration for any of the current openSPOT devices is similar to the original version of Pi-Star. If you are coming over to this connector from BrandMeister, you must switch

your openSPOT from 'Homebrew' mode to 'MMDVM' mode. There, you will find the server in the HBLink section. Add your callsign & DMR ID (if not already present) as shown below:

DMR/Homebrew/MMDVM

[Save](#)

Modem frequency (MHz):	<input type="text" value="446.087500"/>
Modem mode:	<input type="text" value="DMR"/>

Protocol: Homebrew MMDVM

Server:

Callsign:

DMR ID:

Server password: ([show](#))

Route cross mode calls to ID:

Group call Private call

MMDVM options for DMRplus

Use DMRplus options

With the **open Spot 4** you will need to config your static Tg Manuel in you open spot .

This will be at the bottom of the Connectors page .

You can set up to 5 Static Tg at one time .

See screen shot below for more info

The screenshot shows a configuration interface for MMDVM options. It features a dark grey background with white text. At the top left, the title "MMDVM options for DMRplus" is displayed. Below the title, there are several configuration fields. Two checkboxes are checked: "Use DMRplus options" and "User link allowed". The fields for "Static TG TS1 #1" through "#5" are empty. The fields for "Static TG TS2 #1" and "#2" contain the values "31360" and "311307" respectively. The fields for "Static TG TS2 #3" through "#5" are empty. Each field is a horizontal input box with a small icon on the right side.

MMDVM options for DMRplus

Use DMRplus options

Start reflector:

Start reflector ID:

Relink time (min):

User link allowed

Static TG TS1 #1:

Static TG TS1 #2:

Static TG TS1 #3:

Static TG TS1 #4:

Static TG TS1 #5:

Static TG TS2 #1:

Static TG TS2 #2:

Static TG TS2 #3:

Static TG TS2 #4:

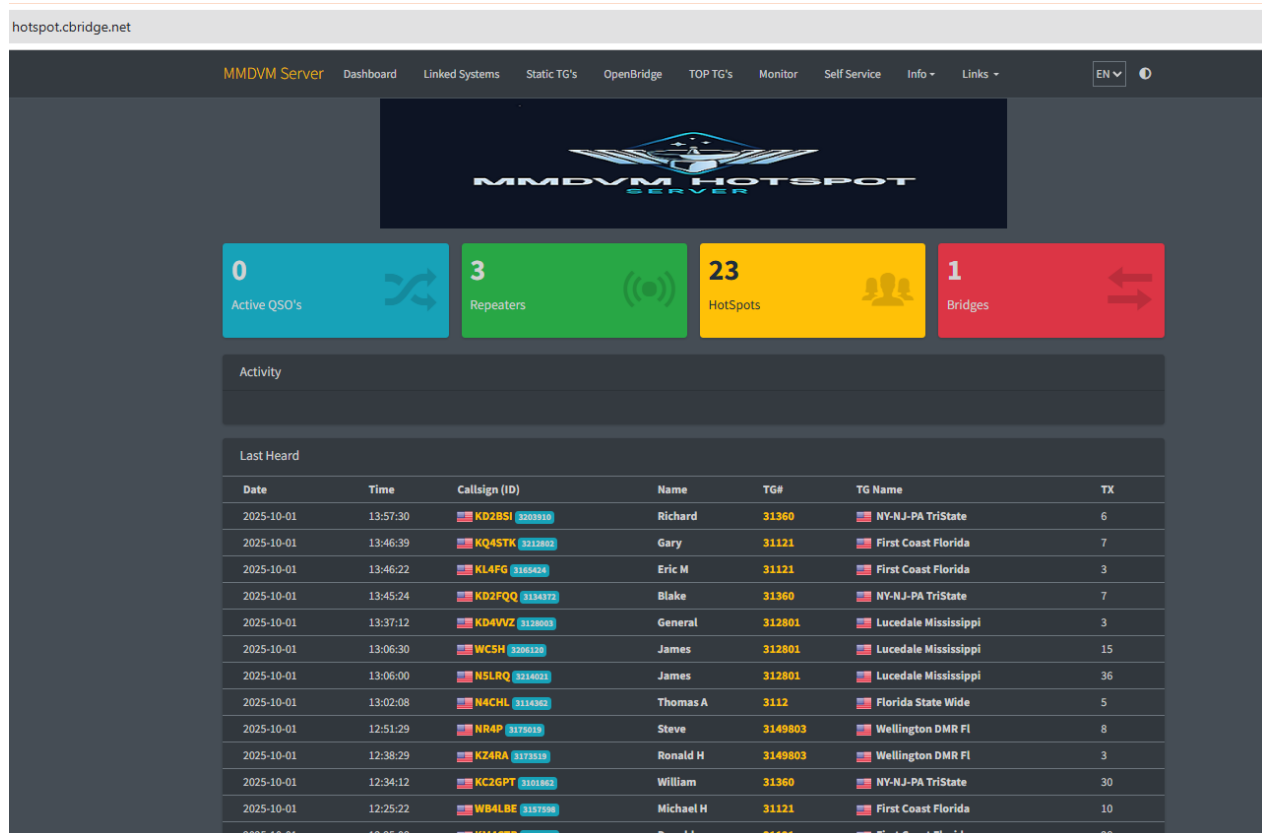
Static TG TS2 #5:

Accessing the web dashboard for the MMDVM interface

Once you have successfully connected your hotspot to the MMDVM interface, you can view the system dashboard at the following link:

<http://hotspot.cbridge.net/>

The system dashboard will show you a list of the last-heard users on the interface by default. To see if your hotspot has properly been connected to the interface, use the **'Linked Systems'** option at the top of the page:



The screenshot shows the MMDVM Hotspot Server dashboard. At the top, there is a navigation menu with options: MMDVM Server, Dashboard, Linked Systems, Static TG's, OpenBridge, TOP TG's, Monitor, Self Service, Info, and Links. The dashboard features a central banner with the MMDVM Hotspot Server logo. Below the banner are four colored boxes representing statistics: 0 Active QSO's (blue), 3 Repeaters (green), 23 HotSpots (yellow), and 1 Bridges (red). Below these are sections for Activity and Last Heard. The Last Heard section contains a table with columns: Date, Time, Callsign (ID), Name, TG#, TG Name, and TX.

Date	Time	Callsign (ID)	Name	TG#	TG Name	TX
2025-10-01	13:57:30	KD2BSI 3203910	Richard	31360	NY-NJ-PA TriState	6
2025-10-01	13:46:39	KQ4STK 3122802	Gary	31121	First Coast Florida	7
2025-10-01	13:46:22	KL4FG 3185624	Eric M	31121	First Coast Florida	3
2025-10-01	13:45:24	KD2FQQ 3134372	Blake	31360	NY-NJ-PA TriState	7
2025-10-01	13:37:12	KD4VVZ 3128003	General	312801	Lucedale Mississippi	3
2025-10-01	13:06:30	WCSH 3206120	James	312801	Lucedale Mississippi	15
2025-10-01	13:06:00	NSLRQ 3316001	James	312801	Lucedale Mississippi	36
2025-10-01	13:02:08	N4CHL 3114362	Thomas A	3112	Florida State Wide	5
2025-10-01	12:51:29	NR4P 3175013	Steve	3149803	Wellington DMR FL	8
2025-10-01	12:38:29	KZ4RA 3173513	Ronald H	3149803	Wellington DMR FL	3
2025-10-01	12:34:12	KC2GPT 3101862	William	31360	NY-NJ-PA TriState	30
2025-10-01	12:25:22	WB4LBE 3137398	Michael H	31121	First Coast Florida	10
2025-10-01	12:25:08	KM4CTR 3117100	Ronald	31121	First Coast Florida	28

At present, there is a limited number of talk groups from the DMR-SE and NJ-TRBO system patched over to the interface. The list of valid talk groups can be seen [here](#).

By default, any talk groups you use will be set as 'dynamic' with a 60-minute time-out timer. If you wish to set static talk groups for your hotspot, use the 'Self Service' option on the top of the page:

W2SJW Logout

Self Service

Select Device **#1**

3134094

SIMPLEX

Time Slot 2 **#2**

TG 1: 31360

Add TS2 #3

Dial-a-TG: ?	0
Voice Identification: ?	Server default
Single Mode: ?	Server default
TG Timeout (min): ?	0

Options: **#4**

TS2=31360;

Save Changes #5

You will see a list of your available hotspots in the device list (**#1**). To set a static talkgroup, enter it in the box (**#2**). You will then see the 'Options:' window update with your choices (**#4**). You can add multiple static talkgroups with the 'Add TS2' option (**#3**). When you are done, press the 'Save Changes' option at the bottom (**#5**).

To confirm that your static talkgroup assignments have been set, use the **‘Static TG’s’** option at the top of the page. It may take a minute or two for the system to fully process your assignments, so you might have to refresh the page as needed:

The screenshot shows the MMDVM Server interface. At the top, the navigation bar includes 'MMDVM Server', 'Dashboard', 'Linked Systems', 'Static TG's' (circled in red), 'OpenBridge', 'TOP TG's', 'Monitor', 'Self Service', 'Info', and 'Links'. Below the navigation bar is a logo for 'MMDVM HOTSPOT SERVER'. The main content area displays two tables: 'Repeater' and 'HotSpots'. Each table has columns for Callsign, Location, Time Connected, Slot, Static TG, Unique TG, and T/O. The 'Static TG' column shows dynamic talkgroups in yellow and static talkgroups in red.

Repeater	Static TG
KC2CWT (311260) - 2d 14h	TS1: 31360, 31121, 312801, 311228 (Yellow); TS2: 311307, 311679, 3199 (Red)
KK4UKC (314433) - 6h 21m	TS1: 0 (Yellow); TS2: 961 (Red)
K4QHR (311316) - 2d 14h	TS1: 3113070 (Yellow); TS2: 3128010 (Red)

HotSpots	Static TG
N0XIA (311206001) - 2d 14h	TS1 (Yellow); TS2 (Red)
K4RSG (3137212) - 1h 11m	TS1 (Yellow); TS2 (Red)
WB4MOZ (3112772) - 6h 41m	TS1 (Yellow); TS2: 961 (Red)
K4AEPS (313277404) - 6h 9m	TS1 (Yellow); TS2: 961 (Red)
K4POI (315782002) - 10h 25m	TS1 (Yellow); TS2 (Red)
KG4GOQ (311211401) - 53s	TS1 (Yellow); TS2: 961, 7289 (Red)

For Self Care to work you will need to add in Option= PASS=(Your Password 6 Characters) Admin Bob - KC2CWT & Pete-K4QHR |
 | Ham Radio Project Created for Amateur Radio Operators By Hams for Hams that want to be treated fairly with respect.

Dynamic talkgroups will be shown in yellow, with the countdown timer just to the right of the TG ID.

If you want to learn more about the ADN Network, their website can be found [here](#). Their system is fully open to the general public, and may other servers already on the network should already be in the hosts file of your hotspot.

If you have any questions, or wish to request a valid talkgroup from the C-Bridge systems be patched into the MMDVM interface, you can e-mail Bob [here](#).