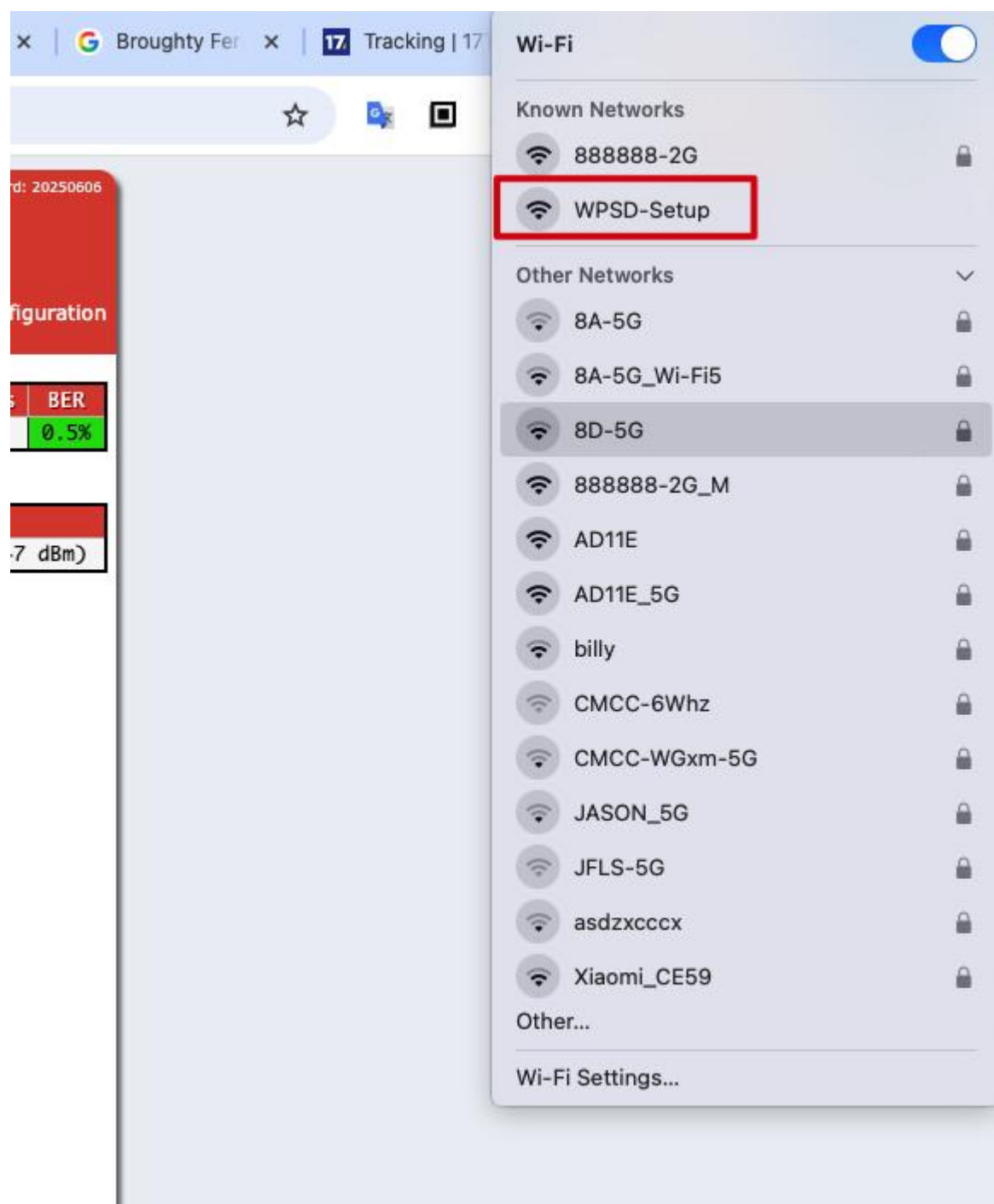


MMDVM hotspot in WPSD dashboard setup guide

Product: Duplex hotspot
@BI7JTA 2025.12

1, Make your hotspot connect to network.

- MMDVM-with-WPSD-setup_01
- MMDVM-with-WPSD-setup_02
- MMDVM-with-WPSD-setup_03_WiFi
- MMDVM-with-WPSD-setup_04_WiFi
- MMDVM-with-WPSD-setup_05
- MMDVM-with-WPSD-setup_06_WiFi-Connected
- MMDVM-with-WPSD-setup_07_PC_to_Home-WiFi
- MMDVM-with-WPSD-setup_08_PC_Visit_Dashboard
- MMDVM-with-WPSD-setup_09_01_Change_Callsign
- MMDVM-with-WPSD-setup_09_02_BM_Server
- MMDVM-with-WPSD-setup_09_03_Confirm_Node_Private



Join "WPSD-Setup"

Hostname: wpsd

WPSD Dashboard Ver. # 8bdf80ff48

WPSD Dashboard for WPSD42

08:34:43 PM, Dec 12

Profiles

Appearance

Live Caller

Simple View

SysInfo

Admin

Radio Status	TX/RX Freq.	Radio Mode	Modem Port	Modem Speed	TCXO Freq.	Modem Type
IDLE	431.150 MHz	Simplex	/dev/ttyAMA0	115,200 bps	Updating. Please wait.	

New Installation...

Your installation needs to be configured.

You will be redirected to the configuration page in 15 seconds...

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Cancel

Wi-Fi

Unsecured Network...

Known Networks

888888-2G

WPSD-Setup

Other Networks

888888-2G_M

AD11E

AD11E_5G

ChinaNet-u5y6-5G

8D-5G

Other...

Wi-Fi Settings...

Join "WPSD-Setup"

Wireless Configuration

(No Connections Configured)

Add Connections

Action: Choose Action...

Select Country: US Set Country

Auto AP SSID	PSK
wpsd	PSK: Confirm PSK: Set PSK

Remote Access Password

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Cancel

Join "WPSD-Setup"

Wireless Configuration

(No Connections Configured)

Add Connections

Choose Action...

✓ Scan & Add Available Networks (can take 10 secs.)

Add Connection Manually

Select Country: US Set Country

Auto AP SSID	PSK
wpsd	PSK: <input type="text"/> Confirm PSK: <input type="text"/> <div>Set PSK</div>

Remote Access Password

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Cancel

Join "WPSD-Setup"

Wireless Configuration

SSID	Signal Strength	Band	Channel	Security Type	Passphrase	Add Connection
AD11E	<div><div></div></div> 95%	2.4 GHz	11	WPA2	<input type="text"/>	<div>Add This Network</div>
888888-2G	<div><div></div></div> 74%	2.4 GHz	3	WPA1 WPA2	<input type="text"/>	<div>Add This Network</div>
888888-2G_M	<div><div></div></div> 67%	2.4 GHz	6	WPA1 WPA2	<input type="text"/>	<div>Add This Network</div>
8D	<div><div></div></div> 62%	2.4 GHz	6	WPA1 WPA2	<input type="text"/>	<div>Add This Network</div>
AD11E	<div><div></div></div> 42%	2.4 GHz	1	WPA2	<input type="text"/>	<div>Add This Network</div>
vivo Y37	<div><div></div></div> 39%	2.4 GHz	1	WPA2	<input type="text"/>	<div>Add This Network</div>
CMCC-PQxb	<div><div></div></div> 39%	2.4 GHz	4	WPA1 WPA2	<input type="text"/>	<div>Add This Network</div>

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Cancel

Join "WPSD-Setup"

Wireless Configuration

Connection '888888-2G_M' (903297f8-4985-439f-bcb3-a1985b7d9b26) successfully added.

(Please give the Wifi Information some time to initialize and refresh its status)

Configured Connections

Connection Name	Delete Connection
888888-2G_M	Delete

http://192.168.2.58

Wireless Information and Statistics

Interface Information	Wireless Information
Interface Name : wlan0	Connected To : 888888-2G_M
Interface Status : Interface is active	AP Mac Address : 78:85:f4:4c:48:00
IP Address : 192.168.2.58	Bitrate : 65.0 MBit/s
Subnet Mask : 255.255.255.0	Signal Level : -55 dBm
Mac Address : 88:a2:9e:29:9f:85	

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Cancel

Fri Dec 12 20:42

Wi-Fi

Weak Security (WPA)...

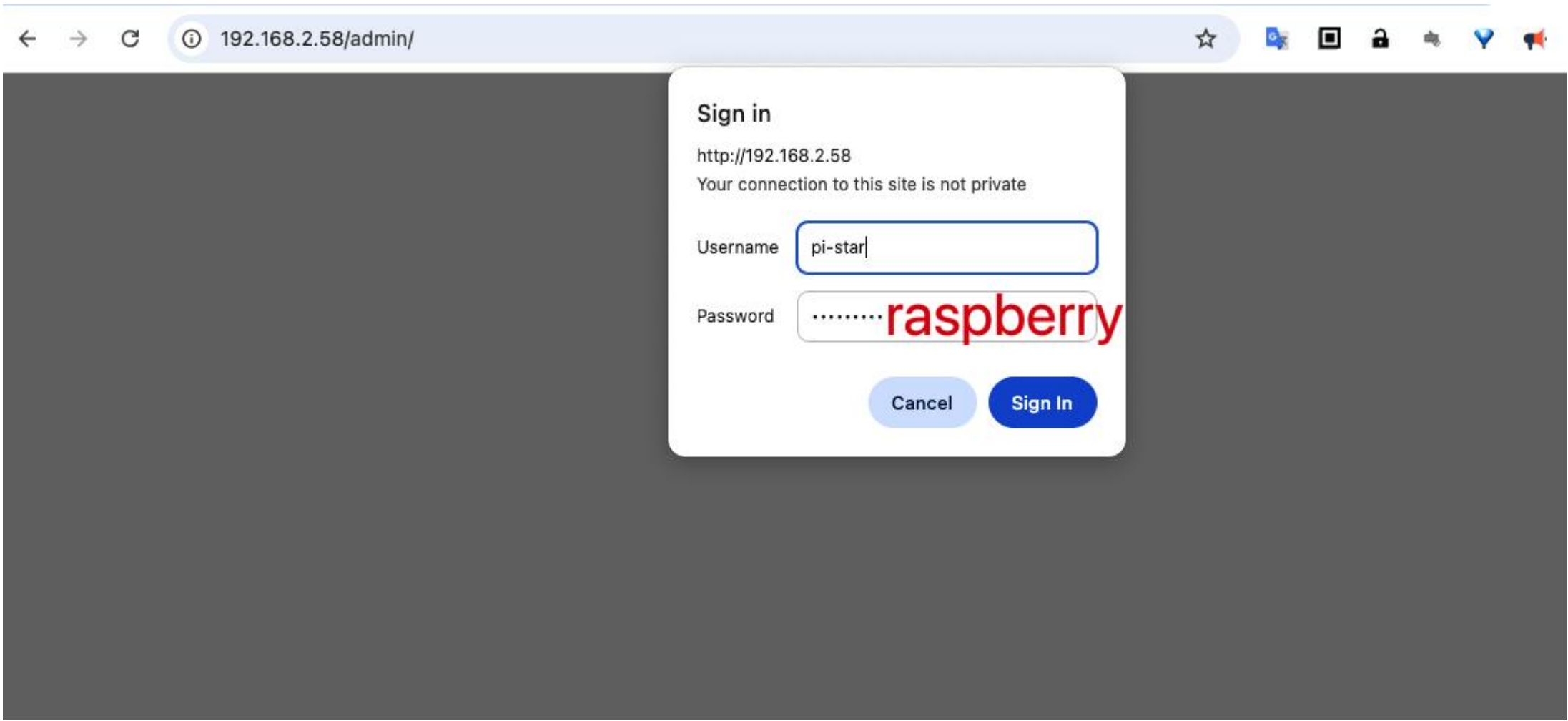
Known Networks

888888-2G

WPSD-Setup

Other Networks

Wi-Fi Settings...



Hostname: wpsd

WPSD Dashboard Ver.# 4d22cfc0db

DashboardAdminPowerAdvancedWPSD UpdateBackup/RestoreFactory Reset

General Configuration

Hostname:	<input type="text" value="wpsd"/>	⚠ Do not add suffixes such as ".local", etc. Note: A reboot is required for this change to take effect.
Node Callsign:	<input type="text" value="BI7JTA"/>	⚠ Do not add suffixes such as "-G"
DMR/CCS7 ID:	<input type="text" value="4600723"/>	ℹ Required for DMR Mode & DMR Cross-Modes (If you don't have one, get a DMR ID from RadioID.Net)
NXDN ID:	<input type="text" value="6231"/>	ℹ Required for NXDN Mode & NXDN Cross-Modes (If you don't have one, get an NXDN ID from RadioID.Net)
Radio Mode:	<input type="radio"/> Simplex <input checked="" type="radio"/> Duplex	ℹ Duplex mode requires Dual Hat/Duplex Modems
Radio Frequency RX:	<input type="text" value="434.755.000"/> MHz	
Radio Frequency TX:	<input type="text" value="439.755.000"/> MHz	
Radio/Modem Type:	<input type="text" value="DogBone Duplex Mini Hotspot (BI7JTA) for RPi (GPIO)"/>	
Modem Port:	<input type="text" value="/dev/ttyAMA0"/>	ℹ Typically there is no need to manually change/set this; for advanced settings/usage.
Modem Baud Rate:	<input type="text" value="115200"/>	
System Time Zone:	<input type="text" value="Europe/Paris"/>	Dashboard Time Format: <input type="radio"/> 24 Hour <input checked="" type="radio"/> 12 Hour
Dashboard Language:	<input type="text" value="english_us"/>	

DMR Configuration

BrandMeister Network Settings

BrandMeister Master:

BM_3102_United_States

BM Hotspot Security:

BrandMeister Network ESSID:

4600723

None

BrandMeister Network Enable:

Primary Network - No talkgroup prefix

BrandMeister Network:


Hotspot/Repeater Information | Edit Hotspot/Repeater (BrandMeister Selfcare)

Brandmeister Manager:

To use the BrandMeister Manager, you need a [BM API Key](#), and then you need to enter it in the [BM API Key Editor](#).

Register for a Brandmeister Account...

DMR DumpTADData:



Node Access Control

⚠ Caution: This section is for advanced multi-user hotspot or repeater usage only!

Node Type:

☒ Private☐ Semi-Public

Access List:

4600724, 1234567, 4600723

❗ Note:

Semi-Public mode cannot be enabled without entering at least one allowed DMR/CCS7 ID in the access list below and applying the changes FIRST.

❓ Enter one, or a comma-separated list of DMR/CCS7 IDs which are allowed access to this hotspot/repeater (required for public functionality). For fully-public/full open access without adding each ID, ignore these settings and [see the FAQs](#).

2, Programming your Digital radio.(DMR ,YSF,P25,D-Star,NXDN,M17)

Wiki page:

https://wiki.b7jta.org/wiki/index.php?title=Main_Page#Radio_Settings_to_MMDVM

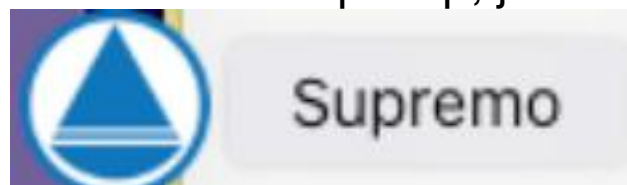
3, Configure Static Talkgroup in BM network

- 4.11 Radio Settings to MMDVM
 - 4.11.1 DMR Mode
 - 4.11.1.1 AnyTone878UV
 - 4.11.1.2 Motorola XPR4550
 - 4.11.1.3 Hytera
 - 4.11.1.4 TYT MD380
 - 4.11.1.5 Baofeng DM5R
 - 4.11.2 P25 Radios
 - 4.11.3 D-Star Radios
 - 4.11.3.1 ICOM9700-D-Star
 - 4.11.4 YSF/C4FM Radios
 - 4.11.5 NXDN Radios
 - 4.11.6 Programming POCSAG/Pager
- 4.12 Analysis Pi-Star OS Boot logs
- 4.13 How-to-enter-ssh
- 4.14 Simplex HOTSPOT
 - 4.14.1 Fast Config guide
 - 4.14.2 Firmware upgrade (Modem)
 - 4.14.2.1 Use PI-STAR script
 - 4.14.2.2 Use ssh script
- 4.15 NanoPi NEO/Air HOTSPOT
 - 4.15.1 Fast Config guide
 - 4.15.2 Firmware upgrade (Modem)
 - 4.15.2.1 Use PI-STAR script
 - 4.15.2.2 Use ssh script
- 4.16 Duplex HOTSPOT
 - 4.16.1 Configure Static Talkgroup for DMR
 - 4.16.2 BER(Bit Error Rate) adjust
 - 4.16.3 Motorola Hytera big offset adjustment
 - 4.16.4 Firmware upgrade (Modem)
 - 4.16.4.1 Use ssh script
 - 4.16.4.2 Use WPSD command
 - 4.16.5 Troubleshooting

4, Troubleshooting

If need help, please send dashboard log file to bi7jta@gmail.com ,or add my Facebook, Telegram,WhatsApp

Remote desktop help, just when you can't solve the problem yourself.



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