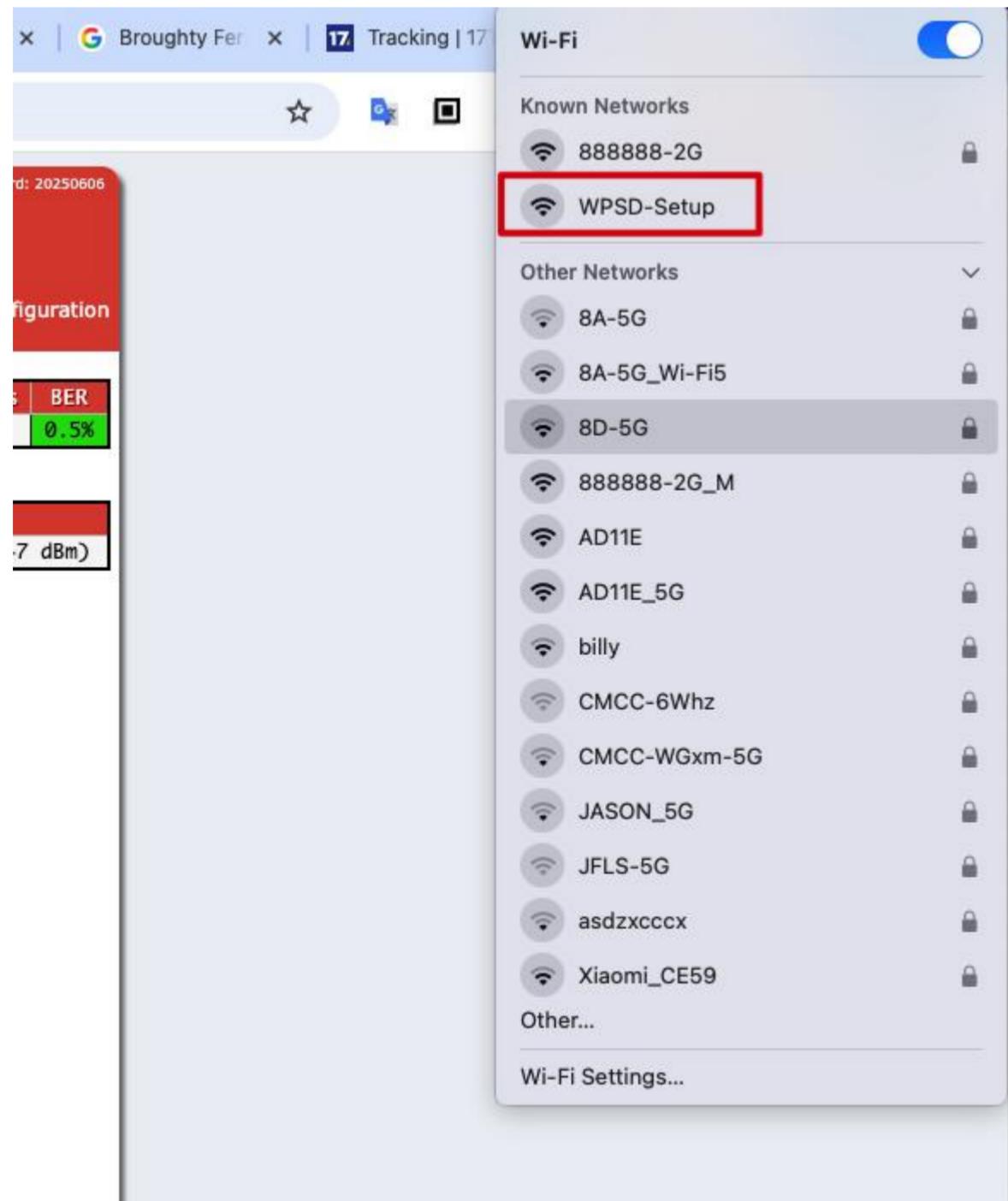


# MMDVM hotspot in WPSD dashboard setup guide

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 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...

Wi-Fi

Unsecured Network...

Known Networks

888888-2G

WPSD-Setup

Other Networks

888888-2G\_M

AD11E

AD11E\_5G

ChinaNet-u5y6-5G

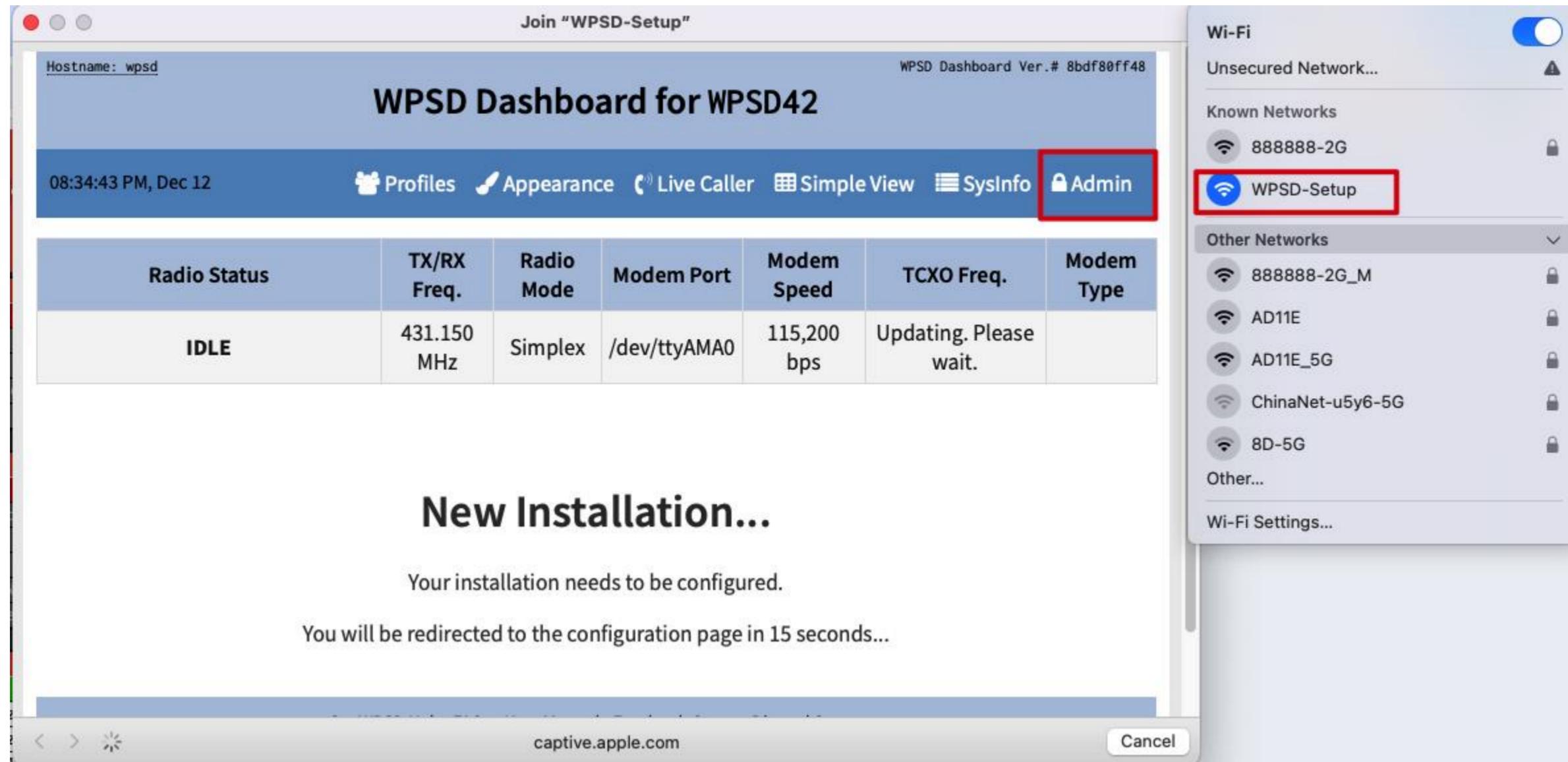
8D-5G

Other...

Wi-Fi Settings...

captive.apple.com

Cancel



Join "WPSD-Setup"

## Wireless Configuration

(No Connections Configured)

### Add Connections

Action: Choose Action...

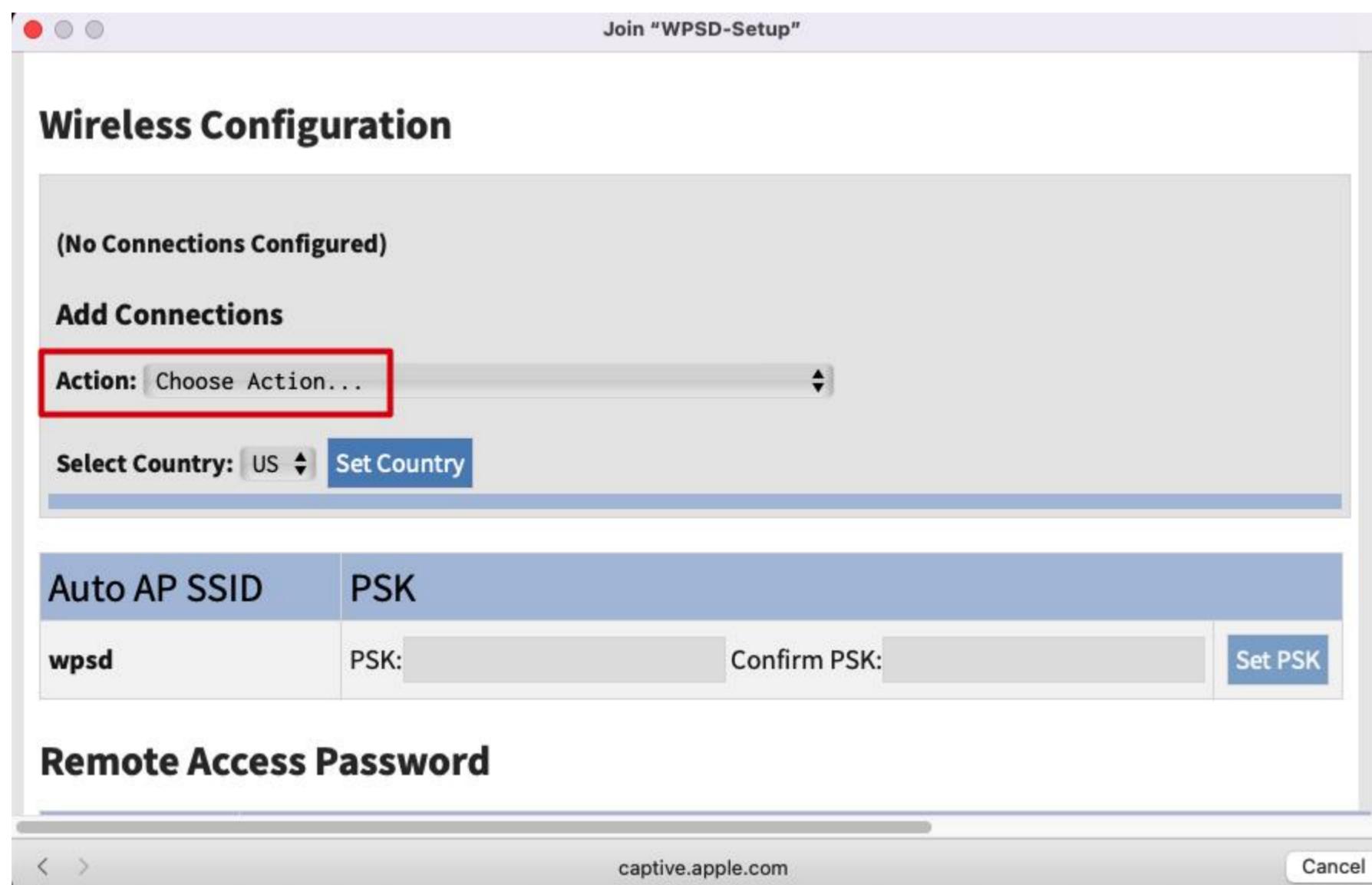
Select Country: US Set Country

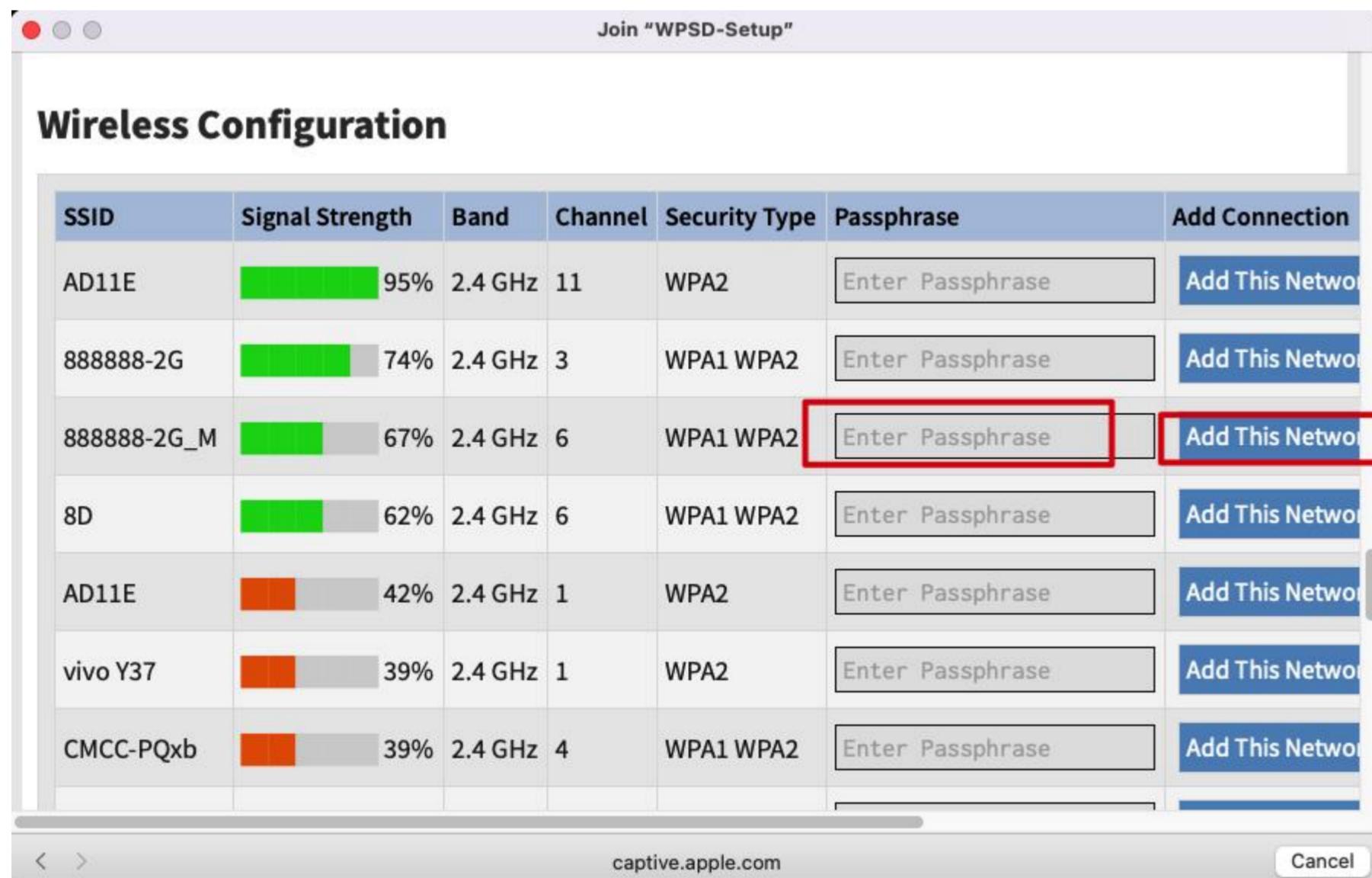
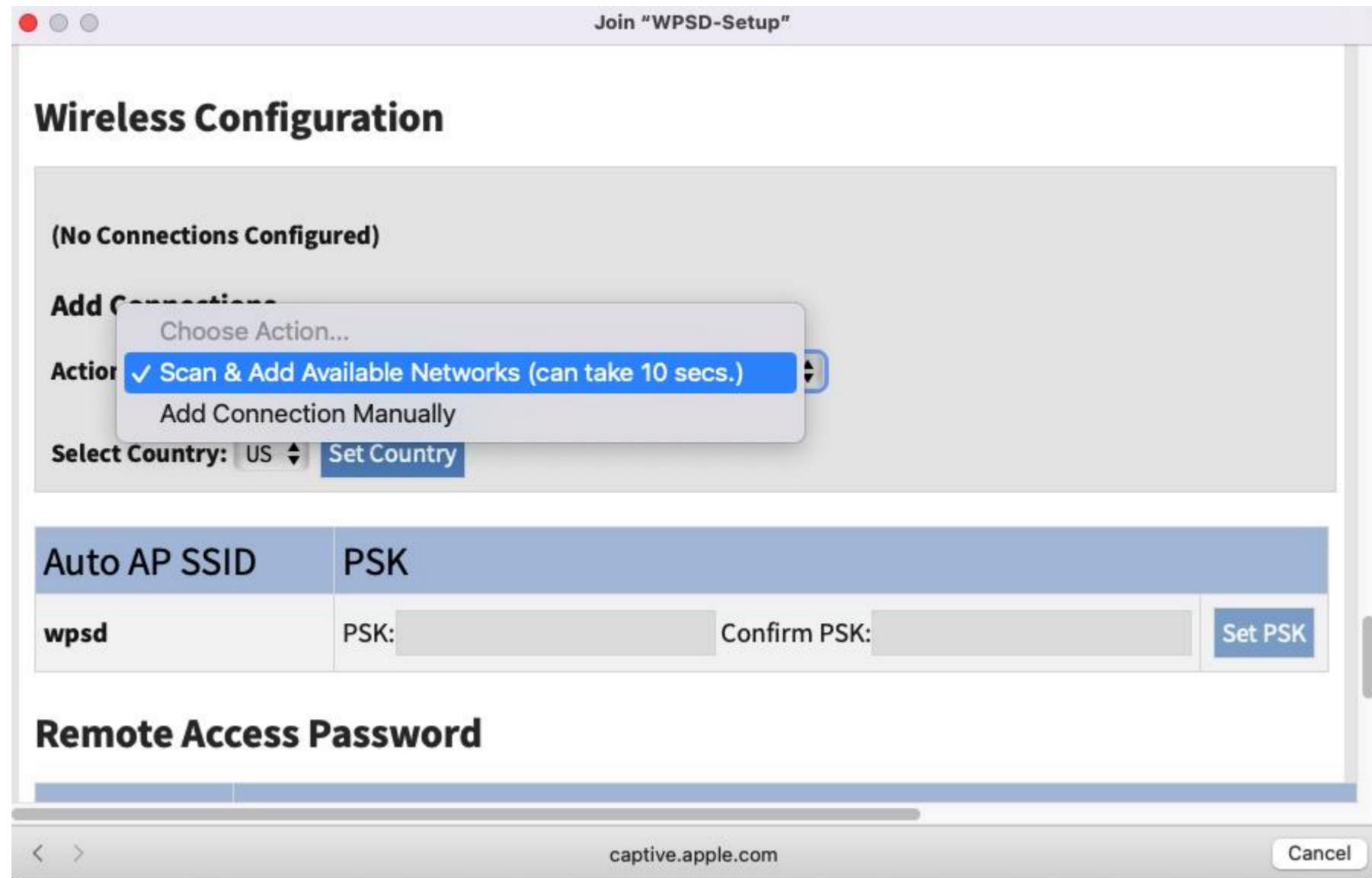
Auto AP SSID	PSK
wpsd	PSK: <input type="text"/> Confirm PSK: <input type="text"/> Set PSK

### Remote Access Password

captive.apple.com

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	<a href="#">Delete</a>

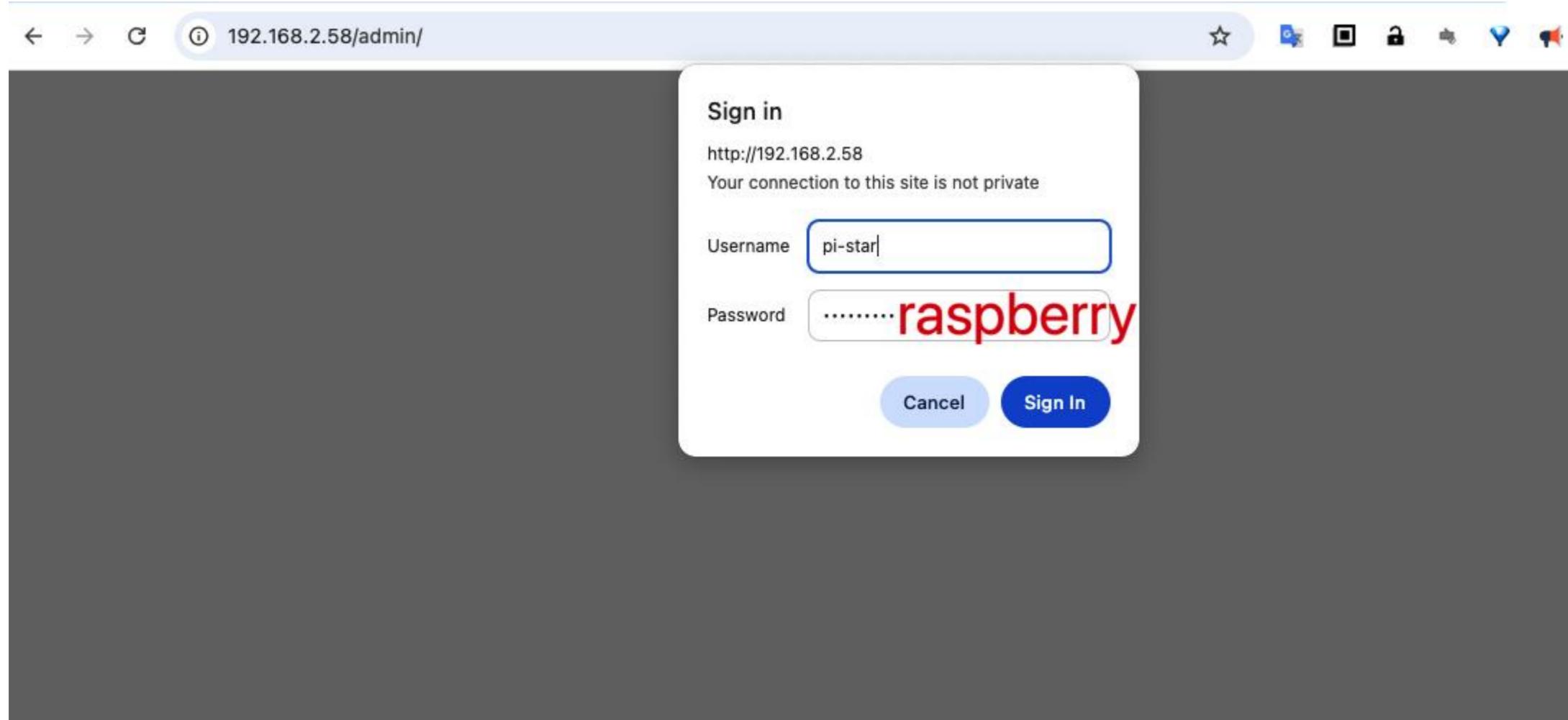
<http://192.168.2.58>

### Wireless Information and Statistics

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

< > captive.apple.com Cancel





Hostname: wpsd WPSD Dashboard Ver.# 4d22cf0db

## WPSD Dashboard - Configuration

[Dashboard](#) [Admin](#) [Power](#) [Advanced](#) [WPSD Update](#) [Backup/Restore](#) [Factory Reset](#)

### General Configuration

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

## DMR Configuration

BrandMeister Network Settings

BrandMeister Master:	BM_3102_United_States	Register for a Brandmeister Account...
BM Hotspot Security:		
BrandMeister Network ESSID:	4600723 None	Primary Network - No talkgroup prefix
BrandMeister Network Enable:	<input checked="" type="checkbox"/>	
BrandMeister Network:	<a href="#">Hotspot/Repeater Information</a>   <a href="#">Edit Hotspot/Repeater (BrandMeister Selfcare)</a>	
Brandmeister Manager:	To use the BrandMeister Manager, you need a <a href="#">BM API Key</a> , and then you need to enter it in the <a href="#">BM API Key Editor</a> .	

DMR DumpTAData: 

## Node Access Control

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

Node Type: <input checked="" type="radio"/> Private <input type="radio"/> Semi-Public	<b>Note:</b> 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.
Access List: 4600724, 1234567, 4600723	<b>Note:</b> 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/public 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.bi7jta.org/wiki/index.php?title=Main\\_Page#Radio\\_Settings\\_to\\_MMDVM](https://wiki.bi7jta.org/wiki/index.php?title=Main_Page#Radio_Settings_to_MMDVM)

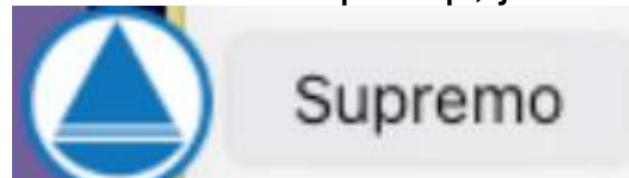
## 3, Configure Static Talkgroup in BM network

- 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](mailto:bi7jta@gmail.com) ,or add my Facebook, Telegram,WhatsApp

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



VY 73 DE BI7JTA