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MMDVM UVIYN Hotspot Configuration

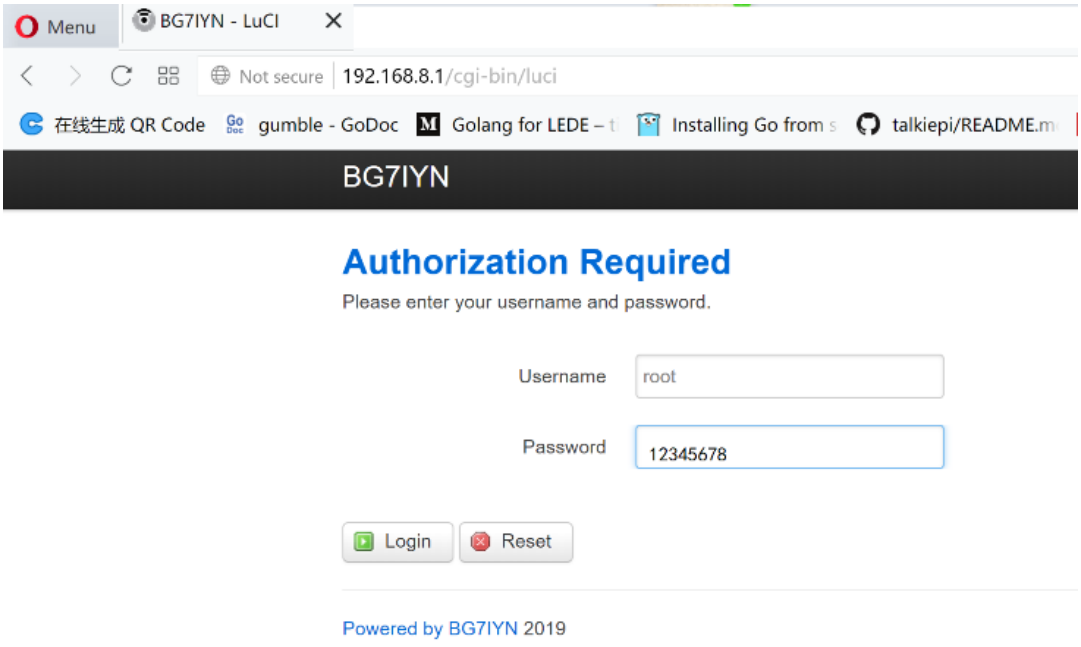
The MMDVM UVIYN hotspot is a completely assembled MMDVM Hotspot with self-contained rechargeable batteries. Supports DMR, YSF and P25. Charging requires a 2 Ampere DC input using the micro USB cable.

A few steps are needed to get you online and on the air with the hotspot.

WiFi Configuration

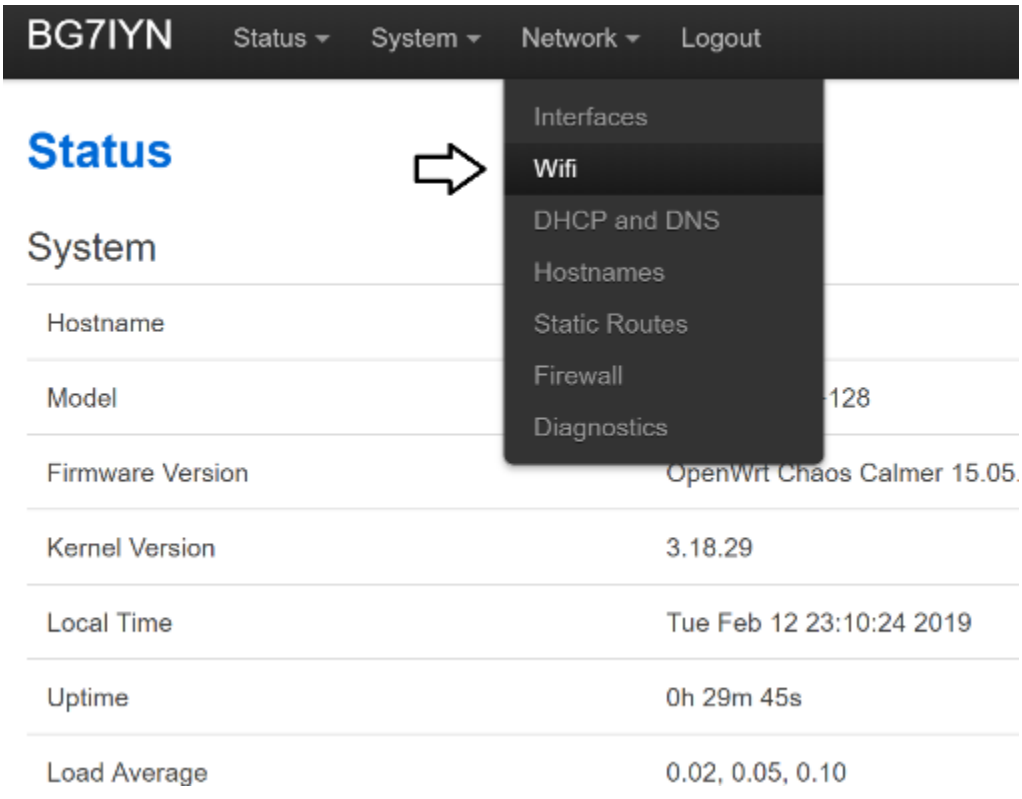
Note: the MMDVM Hotspot only operates on 2.4GHz Wifi

1. Turn on the hotspot by a short press on the power button (top left side), wait 2 minutes for it to boot up.
   - (Note: two short presses on the power button will turn Off the hotspot)
2. On your PC, open your WiFi networks and look for SSID “DMRP25YSF-xxx” and connect to it, no password needed
3. Point your web browser to 192.168.8.1, user= root and password= 12345678

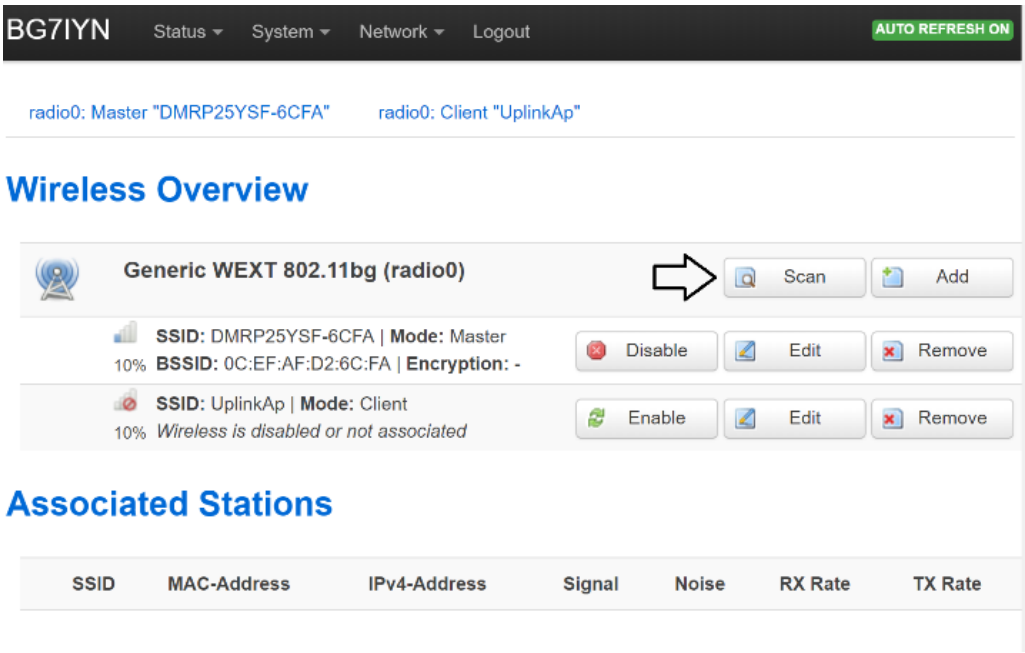


Screenshot courtesy of manufacturer

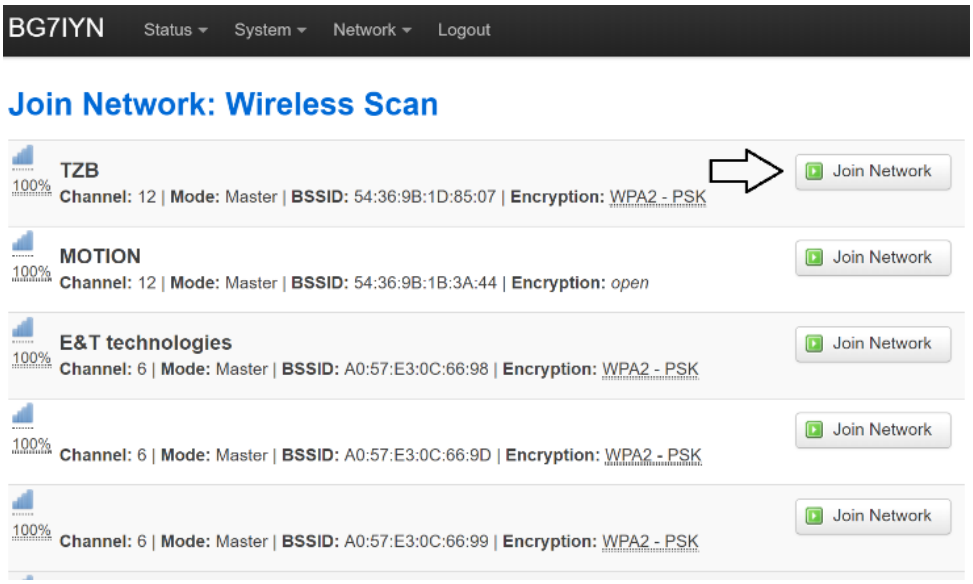
4. On the top menu bar click on **Network** and select **WiFi**



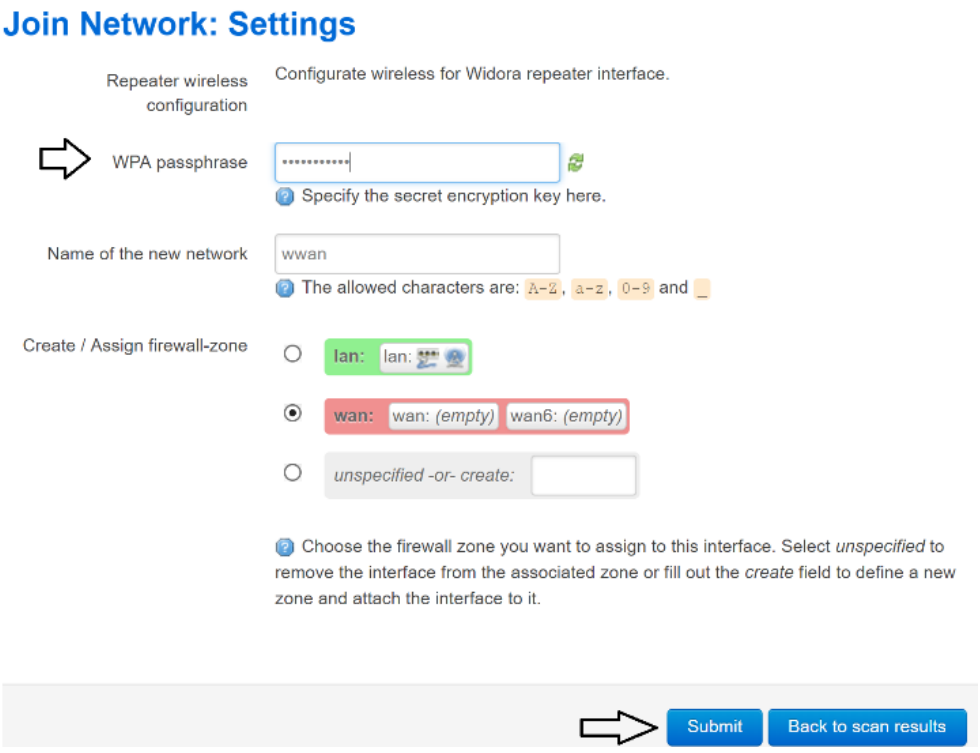
5. **Scan** for WiFi networks then click on Join to select your 2.4GHz SSID WiFi



6. Click on **Join Network** to select your WiFi (example here is SSID TZB)



7. Enter your WiFi password and **Submit**



8. Click on **Network**, then **WiFi**, then click on **Enable** next to your WiFi SSID

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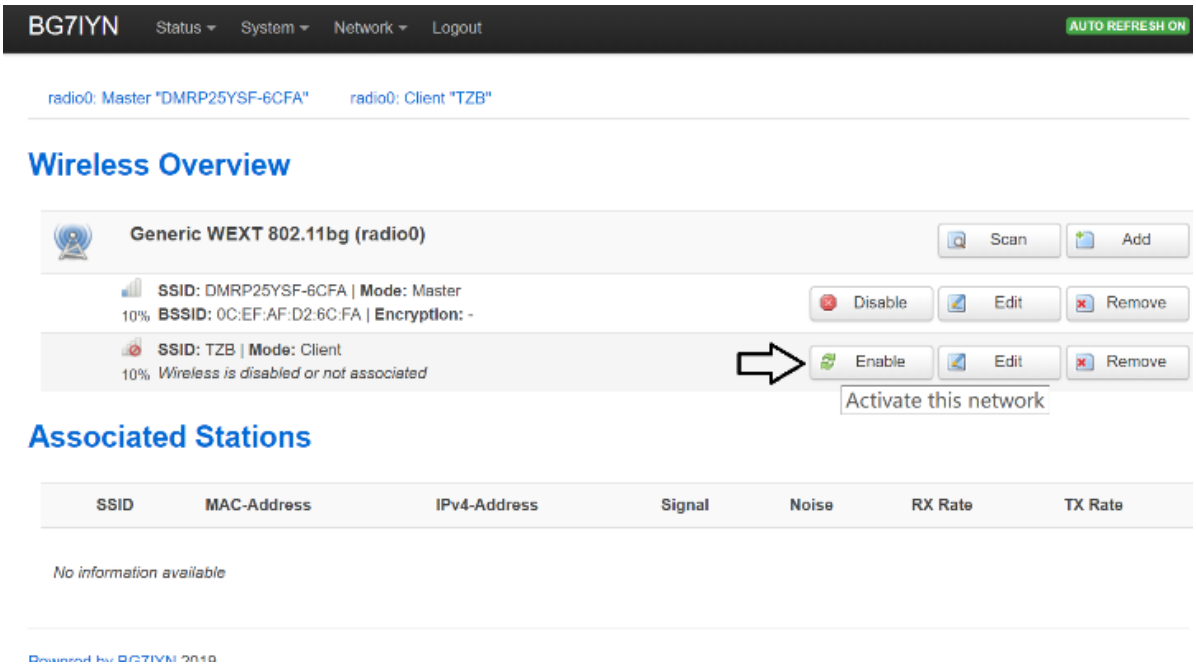
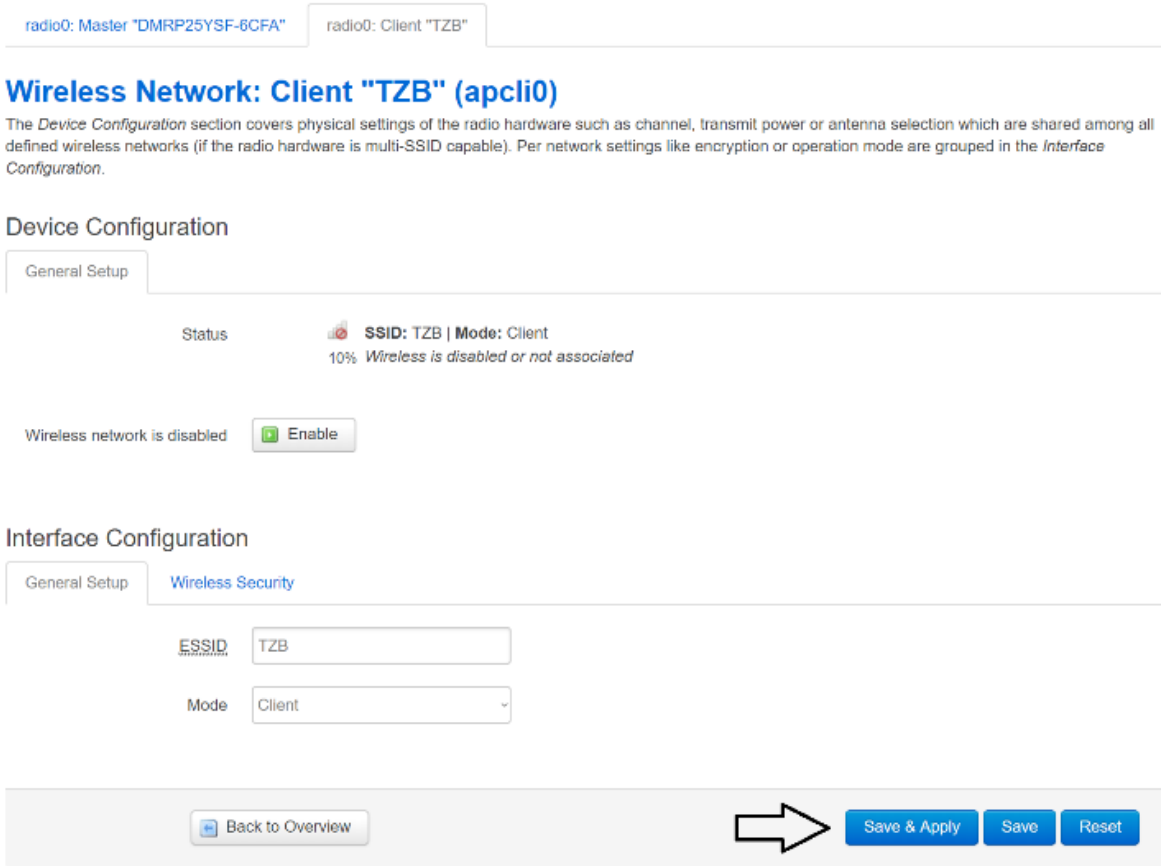
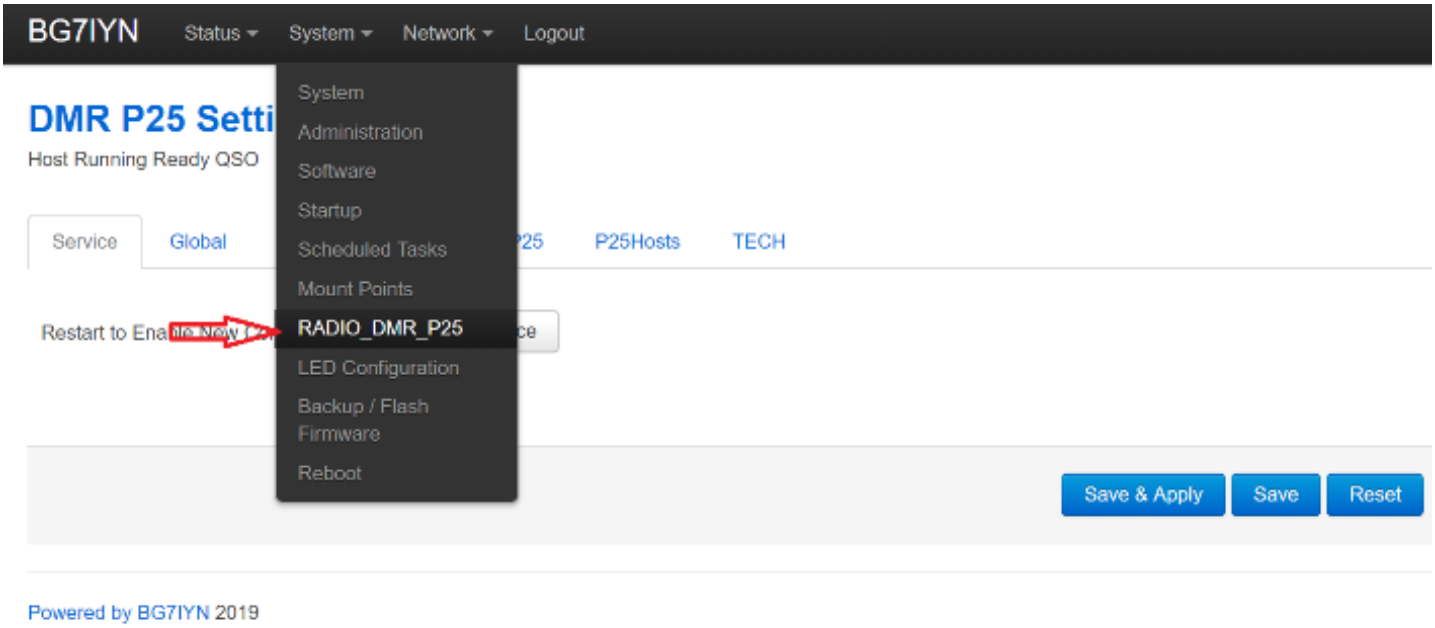
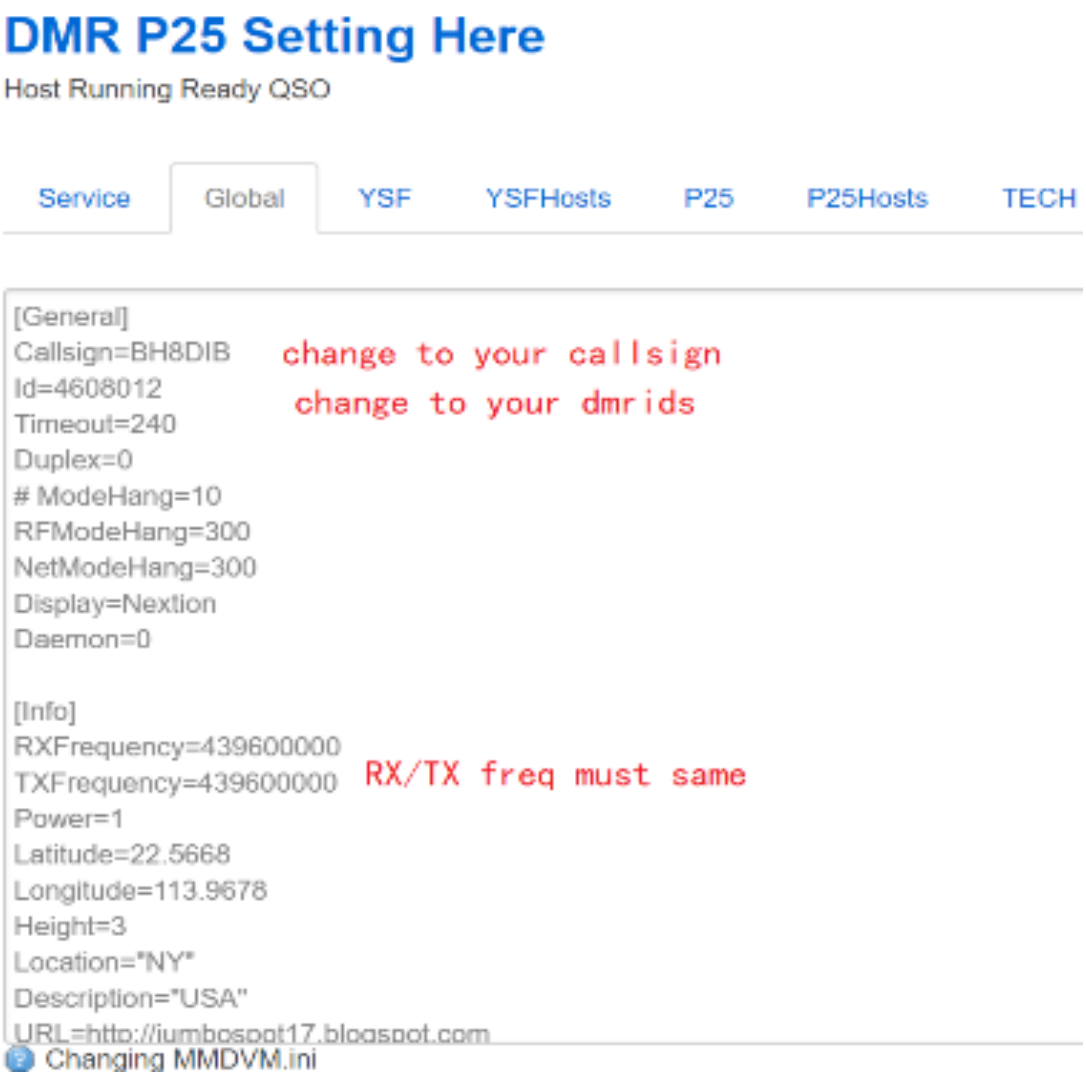




Configure DMR ID and Frequency



9. Enter your Call Sign and DMR ID. Also select the frequency for your hotspot, both TX and RX should be the same (choose a frequency that will not interefere with local repeaters or other communications)



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DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts

```
[D-Star]
Enable=0
Module=C
SelfOnly=0
AckReply=1
AckTime=750
AckMessage=0
ErrorReply=1
RemoteGateway=0
# ModeHang=10

[DMR]
Enable=1   Set 1 to enable DMR
Beacons=1
BeaconInterval=100
BeaconDuration=3
ColorCode=1
SelfOnly=0
EmbeddedLCOnly=0
DumpTAData=1
```

Changing MMDVM.ini

DMR P25 Setting Here

Host Running Ready QSO

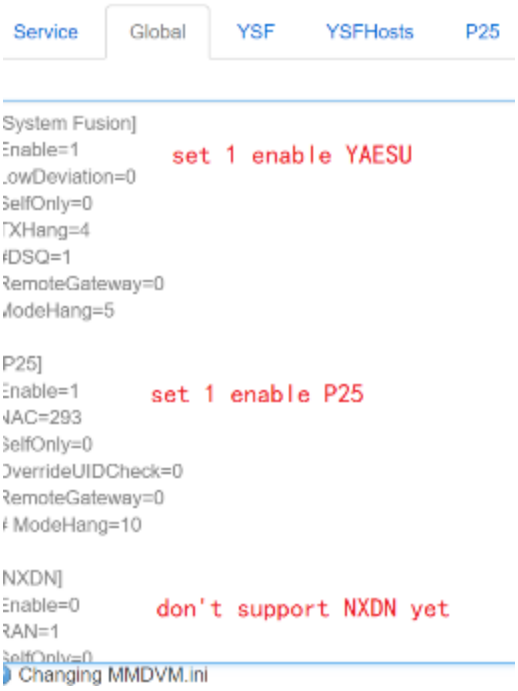
Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

```
[NXDN Id Lookup]
File=/etc/NXDN.csv
Time=24

[Modem]
Port=/dev/ttyS1
#gm950i_TXInvert_0_RXInvert_0
#gm300_RXInvert_0_TXInvert_1
TXInvert=0
RXInvert=0
PTTInvert=0
TXDelay=100
RXOffset=0
TXOffset=0   RXOffset see on labels
DMRDelay=0
RXLevel=50
TXLevel=50
TXDCOffset=0
CWIdTXLevel=50
D-StarTXLevel=50
```

Changing MMDVM.ini

Optional Modes



10. Change the IP address to the nearest US DMR BrandMeister Master server

    3101 New York, NY is IP **107.191.99.14**

    3102 Dallas, TX is IP **74.91.114.19**

    3103 San Jose, CA is IP **74.91.118.251**

    3108 Atlanta, GA is IP **64.94.238.196**

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DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

```
Debug=0

[DMR Network]
Enable=1
Address=47.100.76.205    change this BM server IP for your country
#bm.dv.or.kr 47.100.76.205
Port=62031
Jitter=300
# Local=62032
Password=passw0rd
# Options=
# Options=StartRef=46001;RelinkTime=15;UserLink=1;TS1_1=460;TS1_2=46600;TS1_3=3100;TS1_4=91;TS1_5=92;
Slot1=1
Slot2=1
# ModeHang=5
Debug=0
```

DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

```
PWMBright=100
PWMDim=16

DisplayClock=1
UTC=0

[Nextion]
Port=modem    change this to modem support 2.2inch tft lcd
# Port=/dev/ttyAMA0
#Port=\\.\COM5
Brightness=50
DisplayClock=1
UTC=0
IdleBrightness=10
ScreenLayout=3
```

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OPTIONAL SETTINGS FOR YSF MODE

DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

```
[Network]
Startup=Local Parrot
#Startup=CN-China-03
#Startup=CN China #1
InactivityTimeout=60
Revert=0
Debug=0

[aprs.fi]
Enable=0
# Server=asia.aprs2.net
Server=euro.aprs2.net
Port=14580
#it is your aprs password
#Password=15505
Password=24482
Description=Jumbospot YSF igate
Suffix=Y
```

default YSF Server is Parrot, you can just press X button on FT2D to select Server, or change Startup Server Reference YSFHosts's Name

Set 1 you can see your Callsign on aprs.fi when you press PTT on FT2D

Change your aprs password to login aprs

DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

```
[General]
Callsign=BH8DIB
Suffix=RPT
# Suffix=ND
Id=4600145
RptAddress=127.0.0.1
RptPort=3200
LocalAddress=127.0.0.1
LocalPort=4200
Daemon=0

[Info]
RXFrequency=439600000
TXFrequency=439600000
Power=1
Latitude=22.5668
Longitude=113.9678
Height=0
Name=Nowhere
Description=Multi-Mode Repeater
```

change to your callsign

change to your dmr id

change to your operate freq same in Global TX/RX Freq

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DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

```
FileRoot=YSFGateway

[YSF Network]
Enable=1
Port=42000
Hosts=/etc/YSFHosts.txt
ReloadTime=60
ParrotAddress=127.0.0.1
ParrotPort=42012
YSF2DMRAddress=127.0.0.1
YSF2DMRPort=42013
YSF2NXDNAddress=127.0.0.1
YSF2NXDNPort=42014
YSF2P25Address=127.0.0.1
YSF2P25Port=42015

[FCS Network]
Enable=1        set 1 you can use FT2D press X button to select Server
Rooms=/etc/FCSRooms.txt
Port=42001
```

OPTIONAL SETTINGS FOR YSF MODE

DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

Copy CN China#2 to YSF StartUP if you want use this server default

```
39552;BM-TG-2087;BrMstr TG2087;51.254.126.212;42007;001;
93206;BM-TG-2088;BrMstr TG2088;51.254.126.212;42008;001;
81116;BM-TG-20883;BrMstr TG20883;51.254.126.212;42083;001;
35402;BM-TG-2089;BrMstr TG2089;51.254.126.212;42009;001;
36096;BR YSF724;C4FM - DV Braz;66.55.64.14;42000;004;http://ysf.dvbrazil.com.br/
85044;C4FM-SEOUL;TG45004 XLX170;121.162.91.45;42000;003;http://ysfso.dvham.com/indexysf.php
77353;CA Canada;C4FM Ontario;144.217.241.23;42100;010;http://c4fmontario.hopto.org
49473;CA QUEBEC;QC FR Fusion;64.34.60.44;42000;001;http://www.ve2mrc.com/ysfr/index.php
79602;Carolina Link;Carolina Link;52.3.47.55;42000;007;http://52.3.47.55/index.php
30998;CH 228 Swiss;Bridge BM22820;176.10.105.210;42000;007;http://ysf.hb-connect.ch/
52796;CH JOTA;Jota CH;157.161.57.65;42001;000;http://pi2.woody.ch:8080/YSFReflector-Dashboard/ (ipv6 only)
18829;CN CC#1;TG 460501;47.104.177.248;42000;001;https://mmdvm.cc/ysf/
80337;CN China #1;C4FM YSF;120.234.41.144;42000;043;http://ysf.sz790.com:8081/
82442;CN China #2;W24269/TG46072;116.6.107.115;42006;007;http://ufozhuzi.tpddns.cn:8081/
09724;CN China #99;YSF Test;103.107.105.251;42000;000;http://ysf.ncwxd.com
40973;CN-China-03;C4FM;123.58.6.137;42000;002;http://123.58.6.137:8088
30490;CO 4 KILO MIKE;Antioquia;190.159.68.105;42000;000;
36245;CO HK_BMDMR_LCRA;YSF to DMR;186.29.69.76;42000;002;http://bmdmr.lcra.org.co
72001;CO HK_NAL_LCRA;BM TG732;186.154.94.181;42000;001;http://ysfnal.lcra.org.co
```

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OPTIONAL SETTINGS FOR P25

DMR P25 Setting Here

Host Running Ready QSO

Service | Global | YSF | YSFHosts | P25 | P25Hosts | TECH

```
[General]
Callsign=BH8DIB          Change to your
RptAddress=127.0.0.1     callsign
RptPort=32010
LocalPort=42020
Announcements=1
Daemon=0

[Id Lookup]
Name=/etc/DMRIds.dat
Time=24

[Log]
# Logging levels, 0=No logging
DisplayLevel=1
FileLevel=0
FilePath=/tmp/
FileRoot=P25Gateway

[Network]
Startup=10402  change the number you want to startup P25 server,Reference in P25Hosts
```

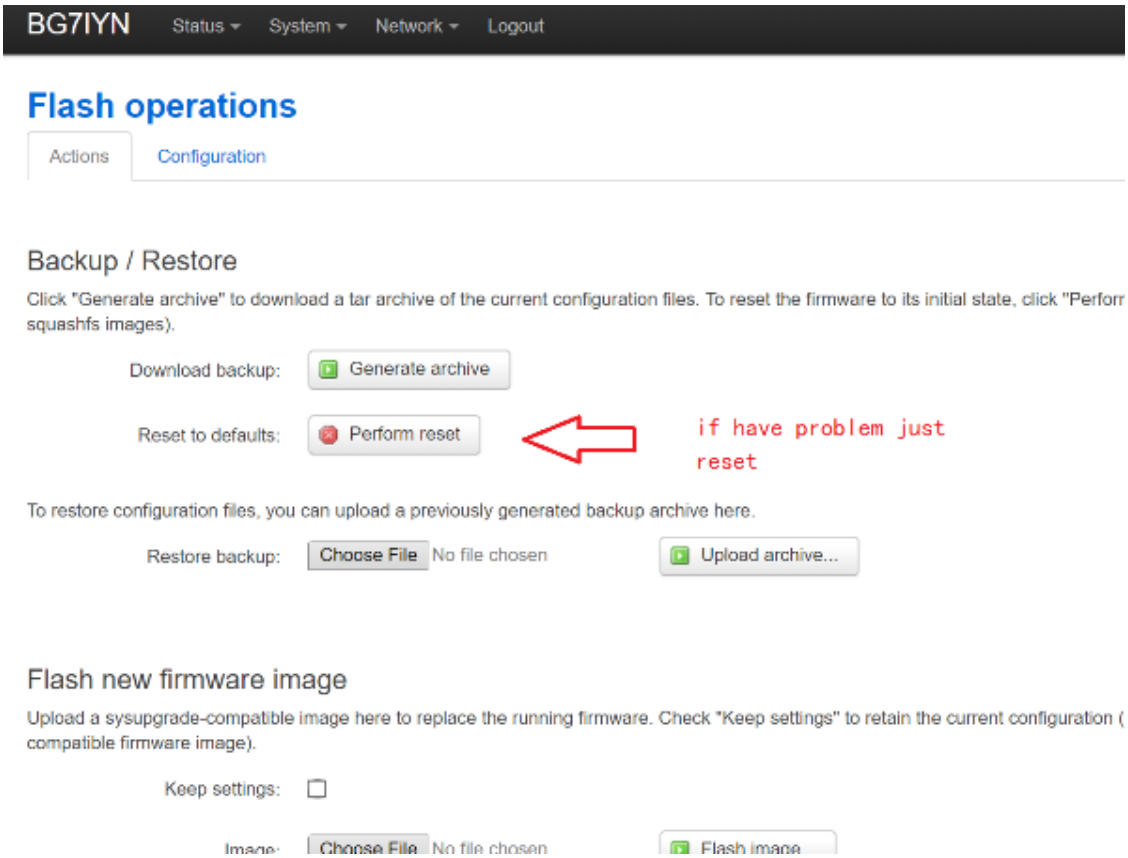
Changing P25Gateway.ini

```
# Pacific, 1040x
10400    pacificp25.repeaters.info 41000
10401    pacifictac1.repeaters.info    41010
10402    47.104.177.248                41000
10403    120.234.41.144                41000

# America-Ragchew, 28299
28299    65.101.7.51    41000

# Alabama Link
31010    p25.alabamalink.info    41000

# 31665 P25-DMR Gateway
31665    74.91.127.166 41000

# 31672 P25 Pi-Star chat
31672    w1msg.trianglenc.net        41000

# 50525 Bridge to YSF, NXDN and DMR
50525    50525.p25dvm.com    41000
 add new p25 server in new line here
```

Changing P25Hosts.ini

11. When done setting all the desired Modes, Click on **Service tab**, then **Save & Apply**, then **Restart**

12. Should you have any issues, you can reset the Hostpot and start over by clicking **Perform Reset**



Final Step

Program the codeplug on your DMR radio with each channel matching the frequency of the hotspot, and start enjoying full access to the DMR network.

END OF DOCUMENT