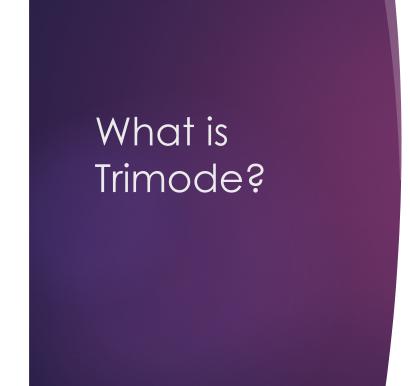


RMS Trimode

RMHAM UNIVERSITY MARCH 12, 2022 JOHN MAXWELL, WOVG



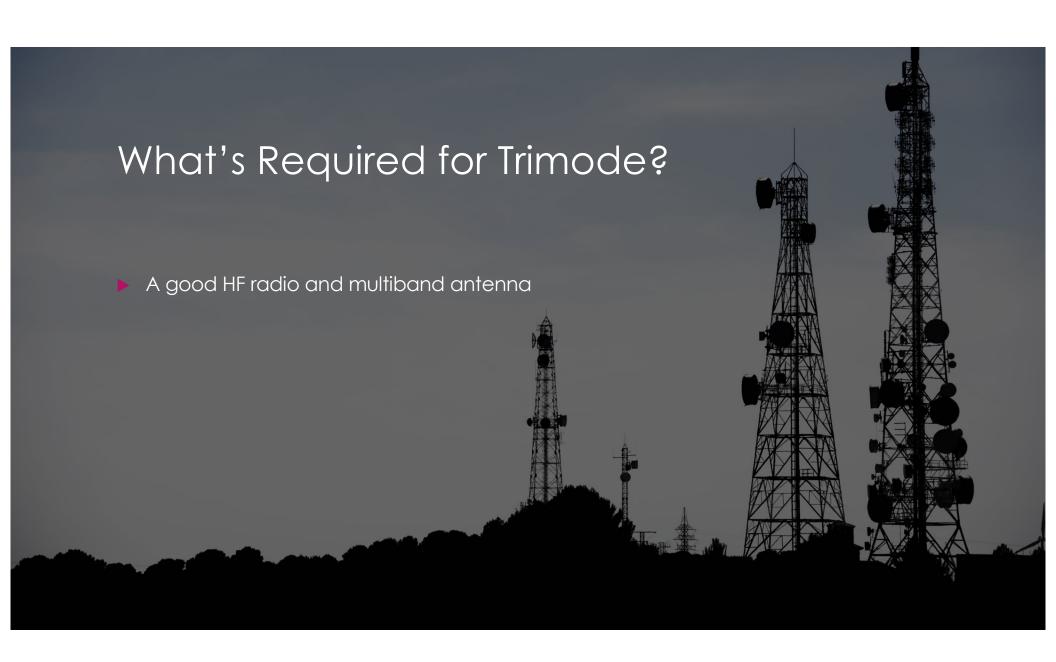


Trimode is the Windows tool that allows HF contacts on multiple modes

- ARDOP
- VARA
- Pactor 3

They do not offer tri-mode on any other platform

Offers backup if the internet fails



Sound card interface

A sound card interface (Signalink USB or Masters Communications DRA-65)



A Good Computer

- A reliable Windows PC
 - Windows 7,8,10,11 works fine
 - It should be on it's own computer so that it is not interrupted
 - At least 4GB ram
 - I suggest a UPS as Trimode gets wonky on unclean restarts.

Trimode

A copy of RMS Trimode

Under sysop software on winlink.org

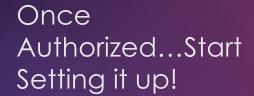
Modem

- Pactor 3 or 4 Modem (Optional but suggested)
- Most connects to my RMS are on Pactor 3.





- ► Contact the system operator at Winlink
 - Indicate that you wish to run a Winlink system full time
 - ► That you'd like to have your node's callsign allowed to be an RMS Gateway
 - ► Steve Waterman, K4CJX is the contact. k4cjx@comcast.net



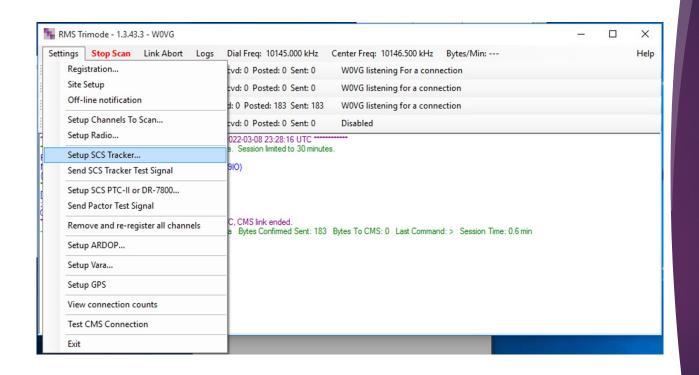


Download Vara HF and I recommend licensing it. Even though it doesn't need to be licensed to run on Trimode, it's a great piece of software.

https://rosmodem.wordpress.com/



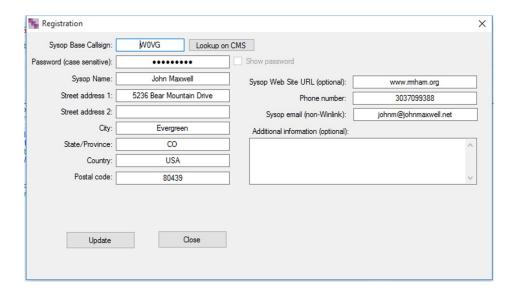
Install Vara



Set up Trimode to operate properly

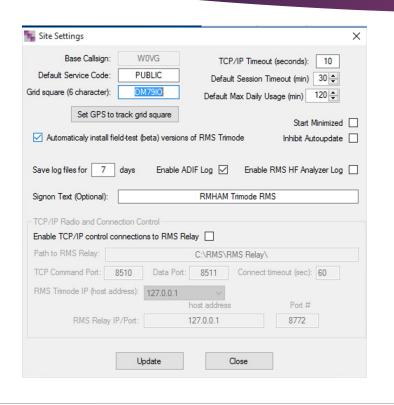
START WORKING DOWN
THE SETTINGS LIST.
CONFIGURE EACH, ONE AT
A TIME.

Registration

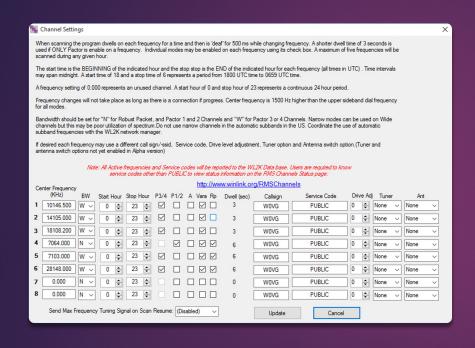


The registration section is only basic information. It will be the sysop callsign and password used to access Winlink.

Site Settings



- Default Service code should be PUBLIC
- Your grid square can be calculated on the web at: https://www.levinecentral.com/ham/grid square.php
- Signon Text is shown to anyone that connects.
- If you use RMS Relay, your mileage may vary.



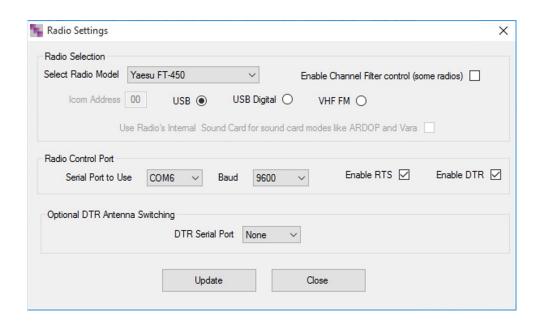
Set up your channels to scan – Pay attention to the channel allocations!

Winlink Suggested Frequencies

- → 3590-3600 500 CW, DM ACDS 3600-3625 2700 (*) All modes ACDS
- 7047-7050 500 CW, DM ACDS 7050-7053 2700 All modes ACDS
- ▶ 10130 10140 500 CW, DM ACDS
- ▶ 14089-14099 500 CW, DM ACDS 14101-14112 2700 All Modes ACDS
- ► 18105-18109 500 CW, DM ACDS 18111-18120 2700 All modes ACDS

- ► 21090-21110 500 CW, DM ACDS 21110-21120 2700 CW, DM ACDS
- 24925-24929 500 CW, DM ACDS 24931-24940 2700 All modes ACDS
- 28120-28150 500 CW, DM ACDS
 28300-28320 2700 All modes ACDS
 29200-29300 6000 All modes ACDS

Set up your radio and control port

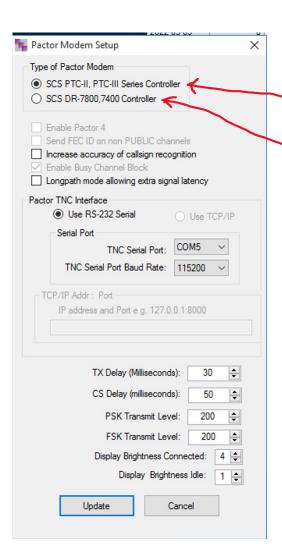


You need a CI-V or CAT control for your rig.

Most new rigs have it built in.

The Yaesu FT-450 has a built in serial port.

Set Up Your Pactor 3 or 4 Modem



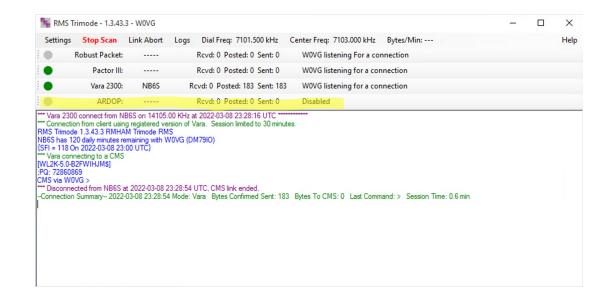
PTC is older but works fine on Pactor 3 with the appropriate license

DR-7400 and 7800 are new, support Pactor 4 which is NOT legal in the US at this time.

Setup VARA and ARDOP soundcards

- The Vara and Ardop soundcard setting is actually on the driver when it loads. You'll find an icon for each mode on the taskbar.
- Choose the USB Audio Codec for both input and output if you're using the signalink. You'll have to choose the proper unit name for the sound card you're using.

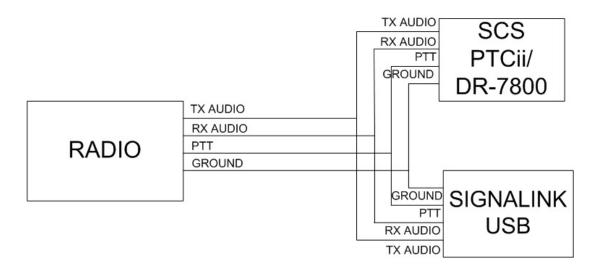




Once Configured, It should run.

THIS IS WHAT IT SHOULD LOOK LIKE WHEN IT'S OPERATIONAL. ALL CONFIGURED MODES SHOULD SHOW LISTENING.

PROPER WAY TO INTERCONNECT RADIO AND TNC/SOUND CARD



Proper interconnect of sound cards and modems

Internet Failure Backup

- RMS Relay allows for internet failure backup.
 - ▶ It's challenging to configure properly
 - ▶ I do failover with multiple internet providers as RMS RELAY does strange things. I have not been able to get actual full functionality failover to work correctly.
 - ▶ RMS Relay can be hard on your radio. High duty cycle for forwarding operations.
 - ▶ RMS Relay also allows for local message storage if the internet is down!

Questions?

John Maxwell, WOVG johnm@johnmaxwell.net