

### Agenda

What is this session going to be about, and not going to be about?

What is Winlink and why should I care?

What are the core components to the entire Winlink system?

How do I get started with setting up for Winlink?

How do I do the initial setup of the Winlink Express app?

What are some additional resources I can look into about Winlink?



### What is Winlink & why should I care?

### Most common use case:

- Emergency communications
- The 'gold standard' for passing message traffic and forms during emergency incidents

### Other functions of Winlink:

- Periodic position reports (SAR, etc.)
- POTA Spotting without cell coverage
- Sailors at sea use to get weather reports as GRIB files

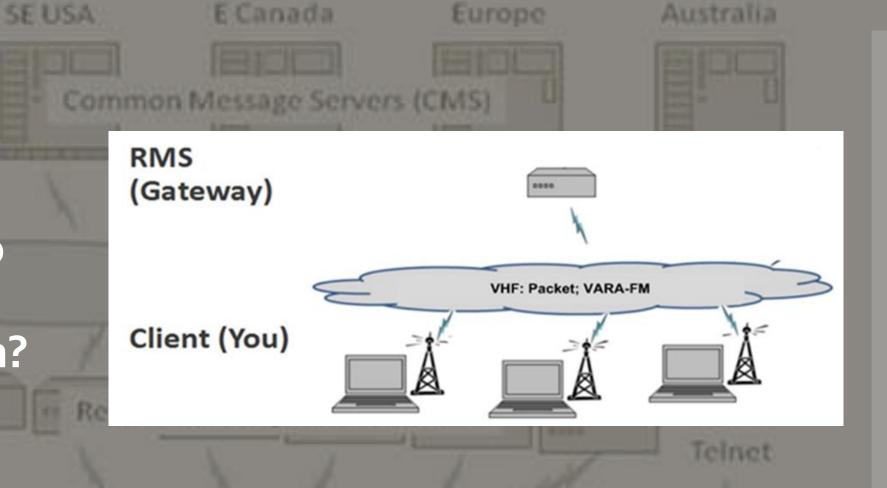
What are the core components to the entire Winlink system?

SW USA

The "front end" systems

HF: Pactor, WINMOR, Robust Packet

VHF/UHF: Packet

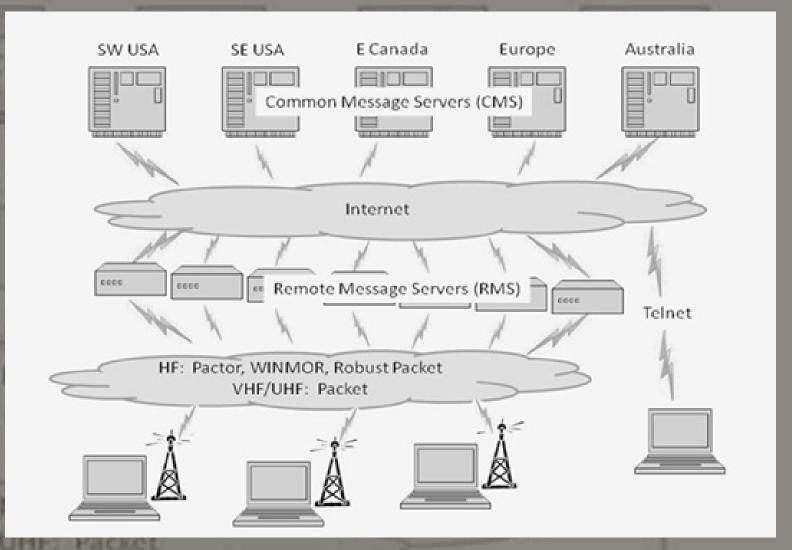


### SW USA SE USA E Canada Europe Australia

What are the core components to the entire Winlink system?

The "back end" systems

HF: Pactor, WI



# How do I get started using the Winlink system?

#### Hardware

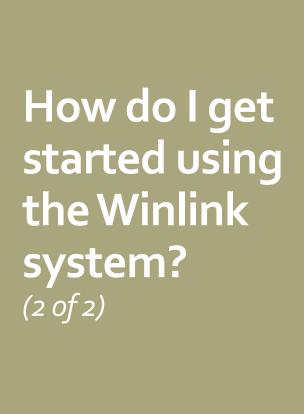
- Laptop/Desktop running Windows 10/11
- No current MacOS solution; community requests have been made for this
- Some one-off Linux based solutions, but almost no support for those

### Software

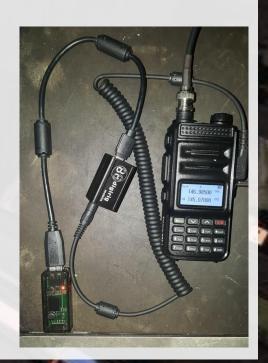
- Winlink Express app
- "modem" interface
  - VARA FM or VARA HF
  - Packet via TNC

#### Winlink Account

Requires a technician license or higher



- HF or VHF/UHF Radio with interface device
  - SignaLink device
  - RIGBlaster device
  - SoundModem by UZ7HO (app installs on PC and acts as the TNC)
  - Kantronics KPC 3+ TNC modem
  - Digi-Rig device (digirig.net)
  - DRA device (masterscommunications.com)



### Select Mode & Digital Interface device

- Select the mode you prefer to use
  - Packet
    - via TNC (Kenwood)
    - via Soundmodem app
    - via hardware TNC (Kantronics)
  - VARA Sound Modem
    - FM
    - · HF



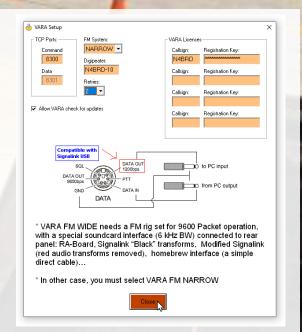


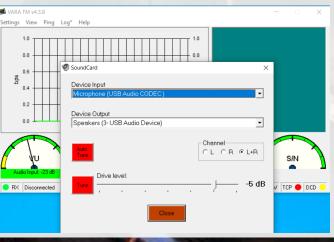
Method	Attachment size	Time to send	Transfer speed
Telnet Winlink	~24 KB	0 min 0 sec	4.2 MB/min
Packet Winlink	~24 KB	6 min 26 sec	3.63 KB/min
VARA FM	~24 KB	1 min 7 sec	20.813 KB/min

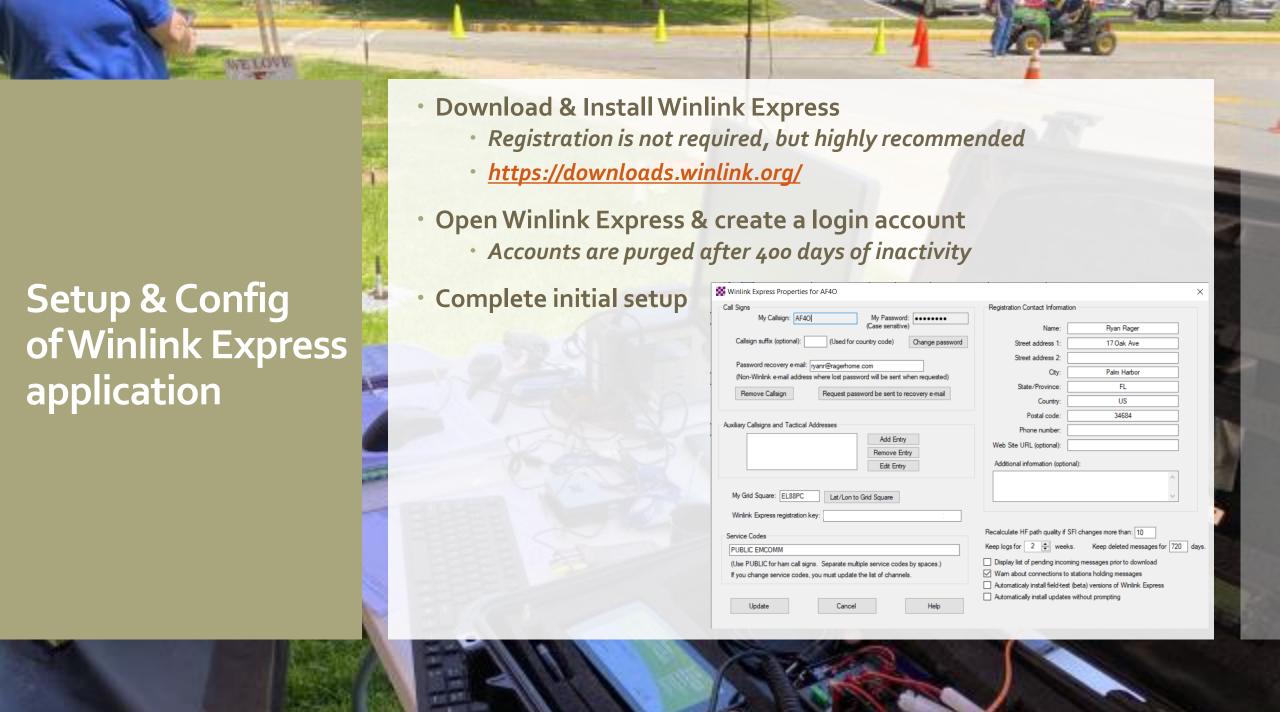


### Setup & Config of VARA FM application

- Download & Install VARA FM
  - Registration of VARA license is optional, but recommended
  - https://downloads.winlink.org/
- Leave setting on NARROW initially
  - If you have a registration key AND have a radio capable of 9600 packet operation, then you can select WIDE
- Open Settings menu
  - Select soundcard settings
  - Configure PTT setting

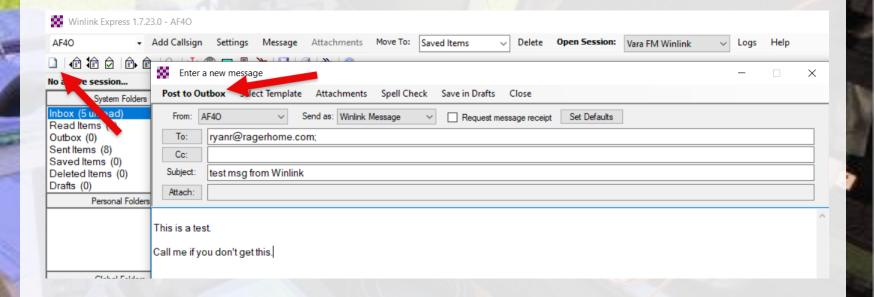






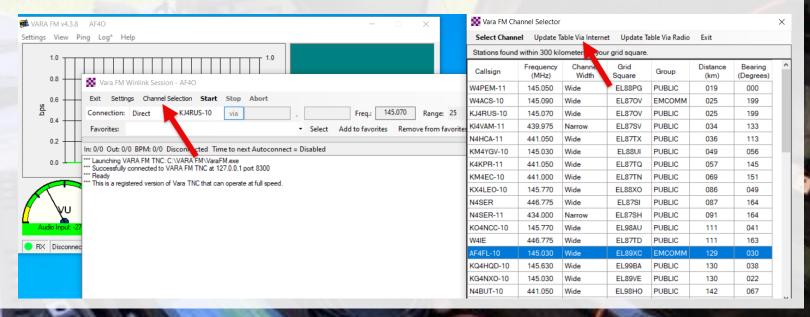
# Testing of Winlink Express installation

- Test your setup
  - Compose new message & save to outbox
  - Open appropriate session mode
    - Session window will open in Winlink Express and connect to your radio via the mode you have selected.



## Testing of Winlink Express installation

- Test your setup (cont.)
  - Open appropriate session mode & click on 'Channel Selection'
  - Double click station to contact and Session window shows station call and frequency
    - If table is empty, click 'Update via Internet'
  - Set radio to the stated frequency & click 'Start'
    - The session will then begin the transmission of the message and tell you your session is disconnected once transmission is complete.



# Additional resources for more Winlink information

### YouTube

Search for 'Winlink' videos

### Winlink website

• <a href="https://winlink.org/content/user\_support\_and\_help">https://winlink.org/content/user\_support\_and\_help</a>

### Winlink Groups IO

https://groups.io/g/Winlink

