Winlink Peer-to-Peer (P2P)

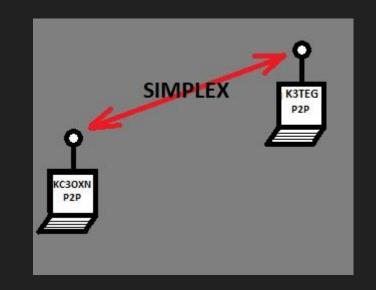
Internetless Radio Email By James Heath KC3OXN





What is P2P?

- P2P is a SIMPLEX Winlink email session between two users, using the same frequency and mode.
 - Vara HF*
 - Vara FM*
 - Packet
 - ARDOP
 - Pactor (requires special equipment)





*Recommended

What P2P is Not?

- P2P is not keyboard to keyboard chat.
 - A connection must be made between the two stations to pass traffic, but the connection is then disconnected automatically after all files are transferred. (To free up the frequency)



What does it take to run P2P?

- A typical Winlink station*.
 - PC running Winlink Express.
 - The proper TNC/modem software.
 - Vara FM and/or HF, Packet (Soundmodem), etc.
 - A radio station connected to the PC that's capable of running regular Winlink traffic over RF.

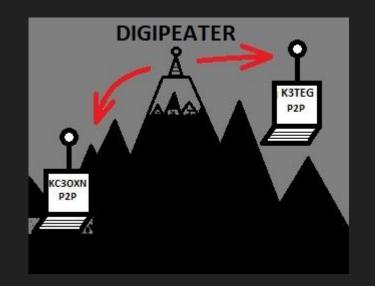
*If you're already running Winlink over RF you're good to go.



- Both stations must be running a P2P session:
 - in the same mode
 - on the same <u>frequency</u>
 - o at the same time
- The message must be a "Peer-to-Peer Message" type.



- Because P2P is a "simplex"
 connection, there are only two
 connected stations, without
 intermediate infrastructure or
 the Internet.
 - With the exception of P2P
 Packet and Vara FM,
 which allows for the use of up to two digipeaters.





- The mode and band used will have to be selected based on:
 - License privileges (VHF/UHF or HF)
 - Station capabilities and equipment
 - Band conditions



- A communications plan <u>must</u> be established ahead of time.
 - Mode used
 - Vara HF, Vara FM, Packet, etc.
 - Band/Frequency used
 - Digital portion of the amateur band plan.

P.A.C.E. Planning

- Primary
- Alternate
- Contingency
- Emergency



Winlink P2P as a "mailbox".

- Because P2P stations can be left running as a "mailbox", traffic handling is asynchronous. Meaning an operator doesn't need to be present at the station to receive or send traffic.
- While running a P2P session, the station is listening for calling stations.





Posting to a team.

Using a group address on a P2P message will create a separate message for each call sign automatically when posted to the "Outbox". These messages will sit there waiting for those stations in the group to connect and retrieve their message.

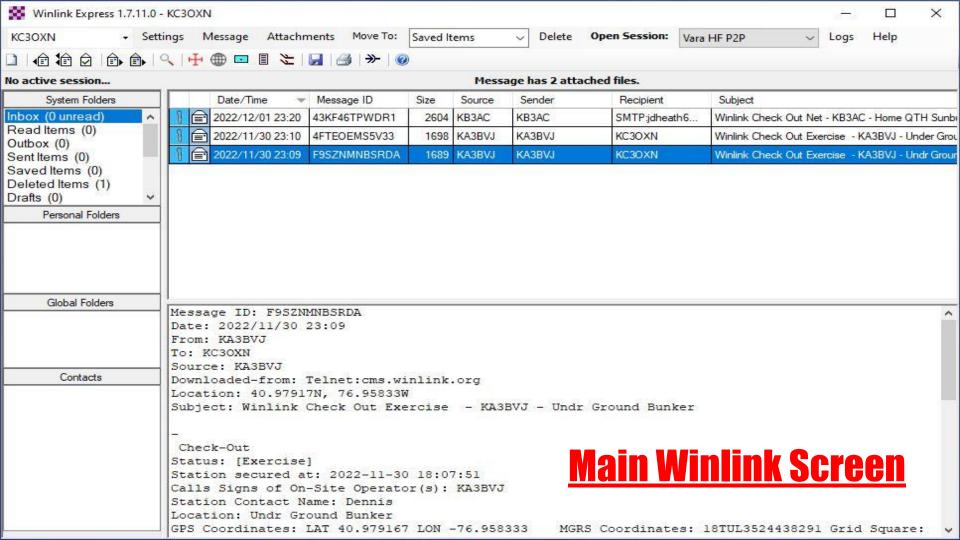


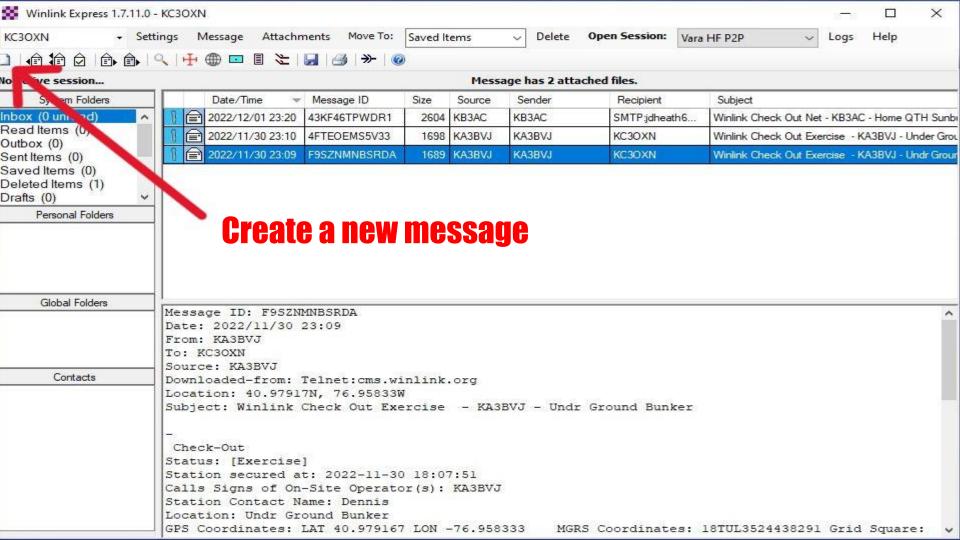
Steps to running a Winlink P2P session.

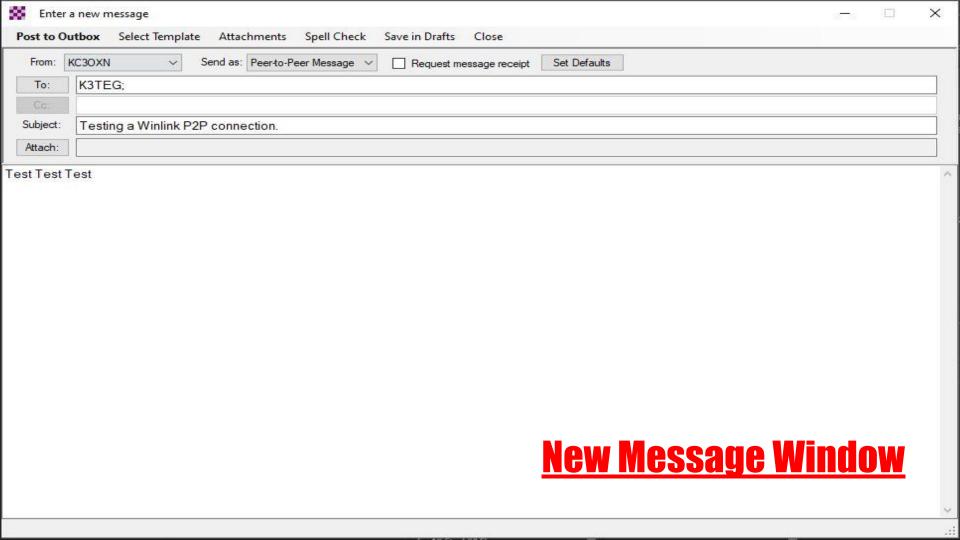
- 1. Creating and posting a P2P message.
- 2. Selecting and opening a P2P session.*
- 3. Starting the P2P session.
- Connecting and sending a P2P message.

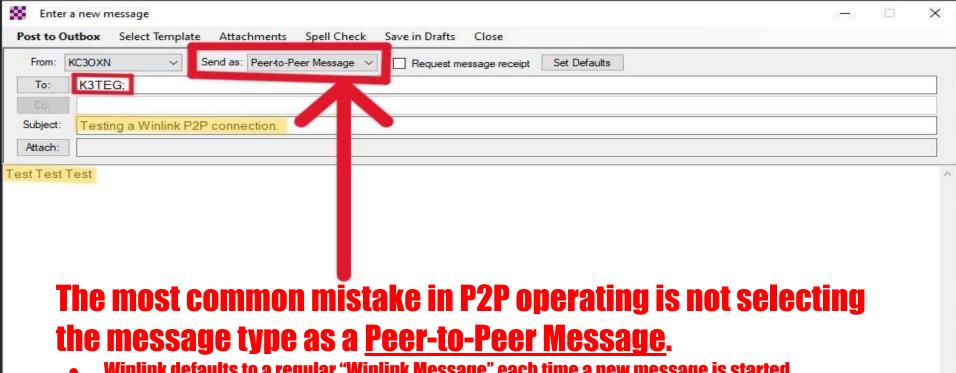


*Necessary to receive a P2P message

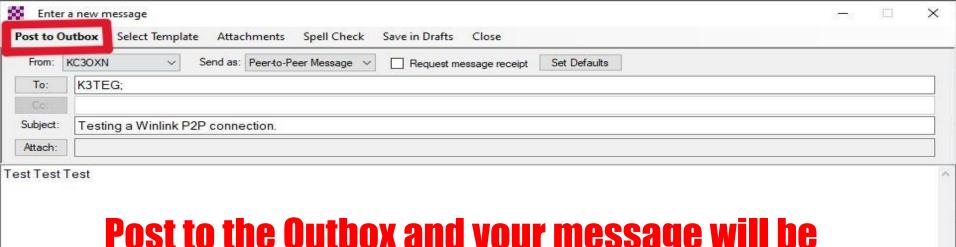




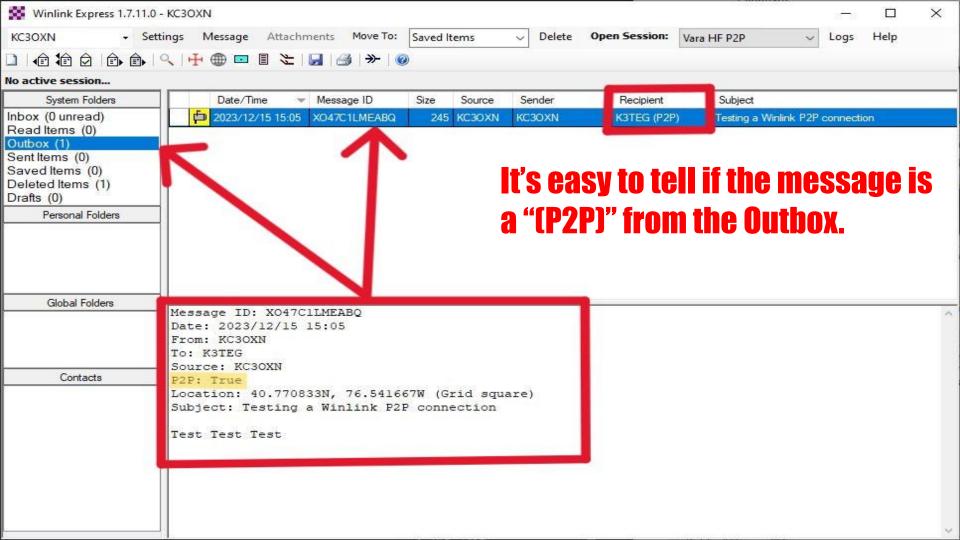


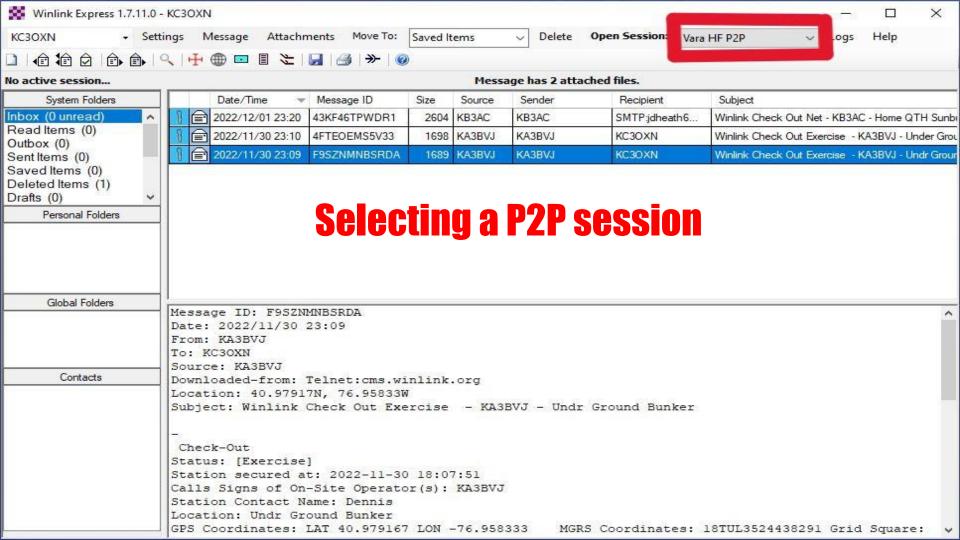


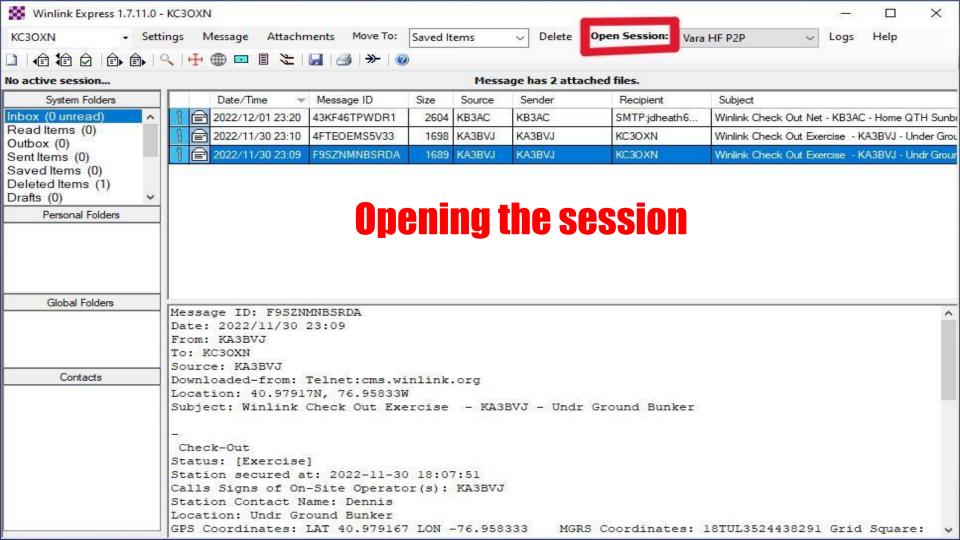
- Winlink defaults to a regular "Winlink Message" each time a new message is started.
- The message is otherwise the same as a regular message.
 - **Receiving station's address**
 - Subject
 - Message
 - **Attachment files**

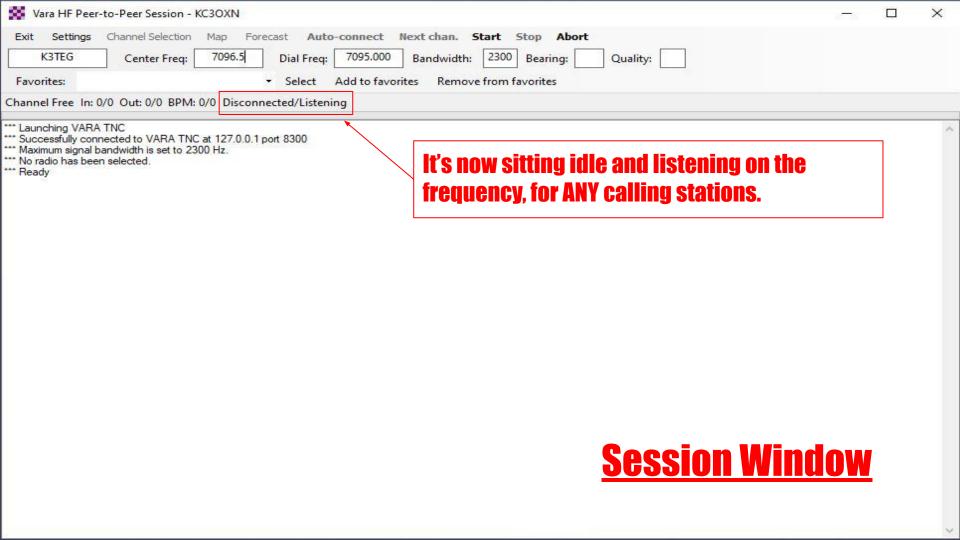


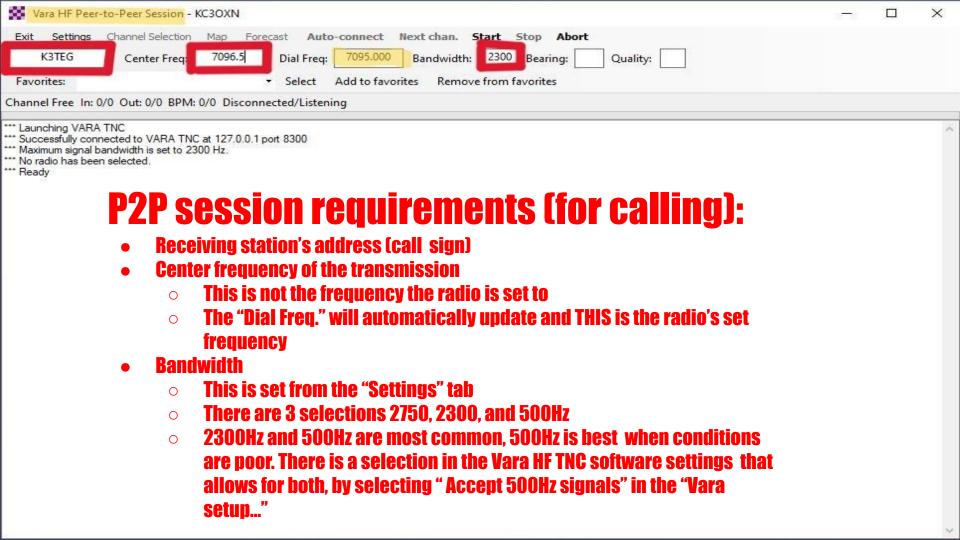
Post to the Outbox and your message will be ready to send.

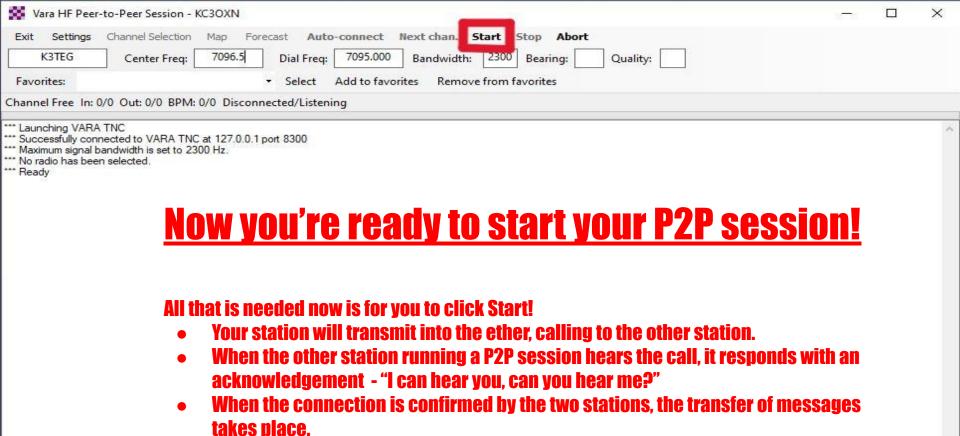


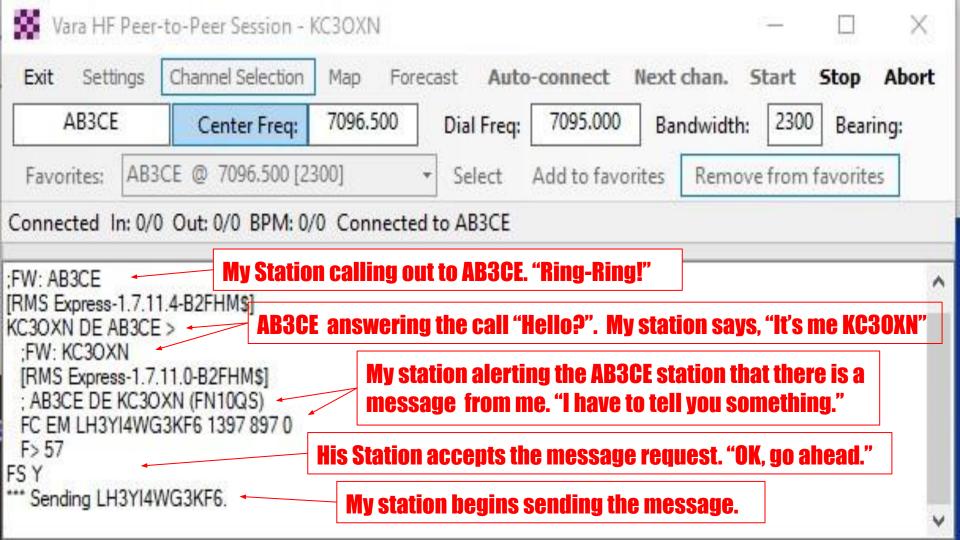


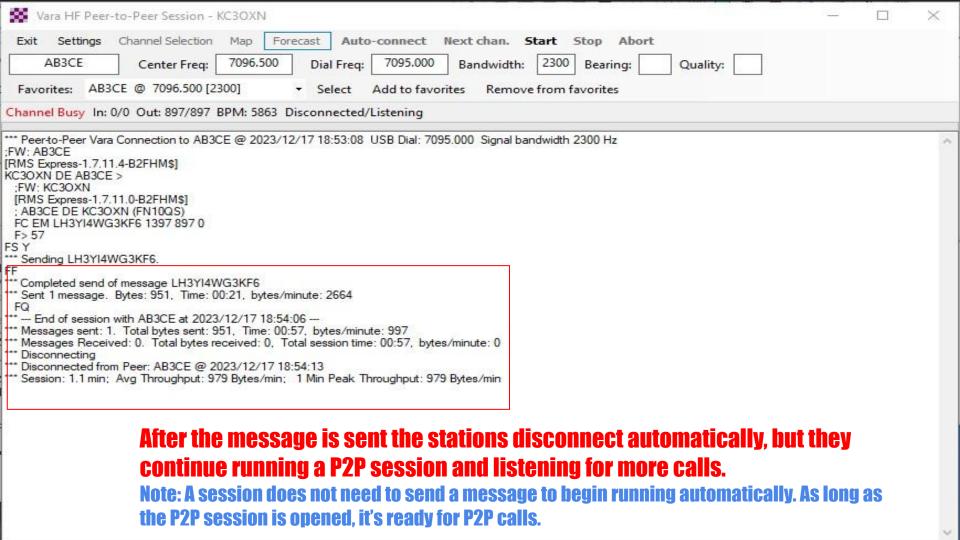












Thanks for listening!

Any questions (?)



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