AEA Amateur Radio Club



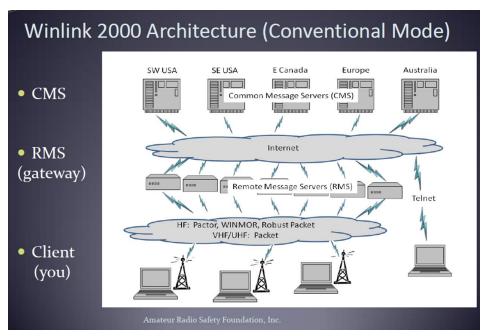
Winlink
(RF email)
Overview and
Demo

Bob Lanahan Jul 2023



Winlink Overview and Demo

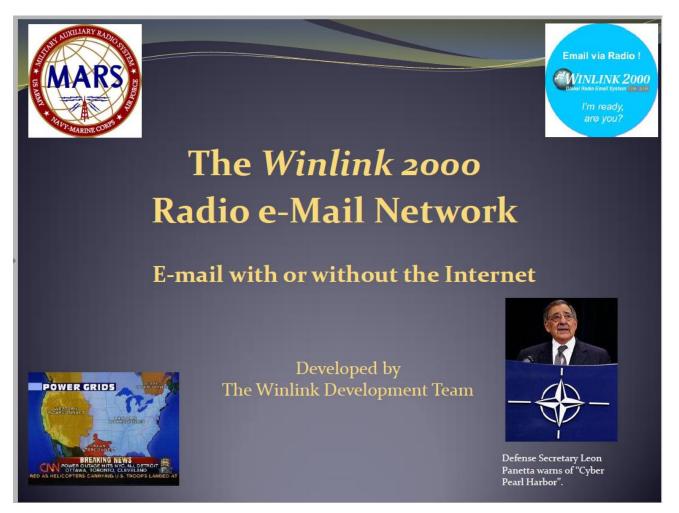
- History Tom E's briefing March 2018
- Cables and setup
- Installing Winlink
- Telnet Winlink
- Packet to a Winlink Node (RMS then to/from CMS and back)
- Packet to Packet with another Radio Operator





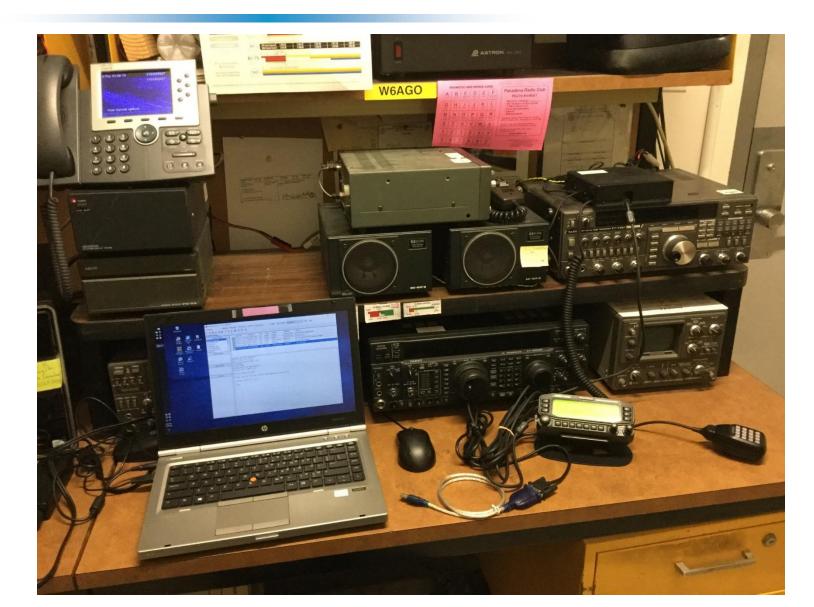
History

- Tom E briefed winlink to the club in date 2018/2019?
- http://www.aeaclubs.org/w6ago/ or ask Bob for a copy





The A2 Shack Setup





Cables & Setup

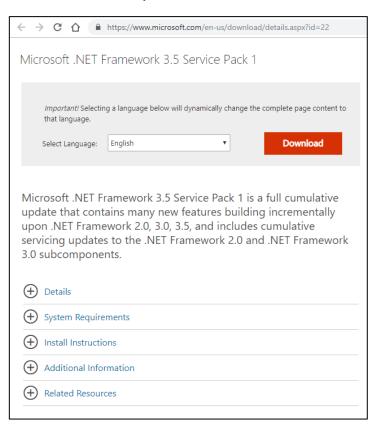
- Ordered a RS-232 to Kenwood Comm cable \$50? one week
- Ordered a USB to RS-232 cable \$20 one week
- Plug the cable in to laptop, it will download drivers (be connect to the internet)
 - It will set up a Comm port (might need if for troubleshooting)
 - Find the comm port using the hardware detection comm port 5
 - Think each usb port has it's own comm port



Installing Winlink

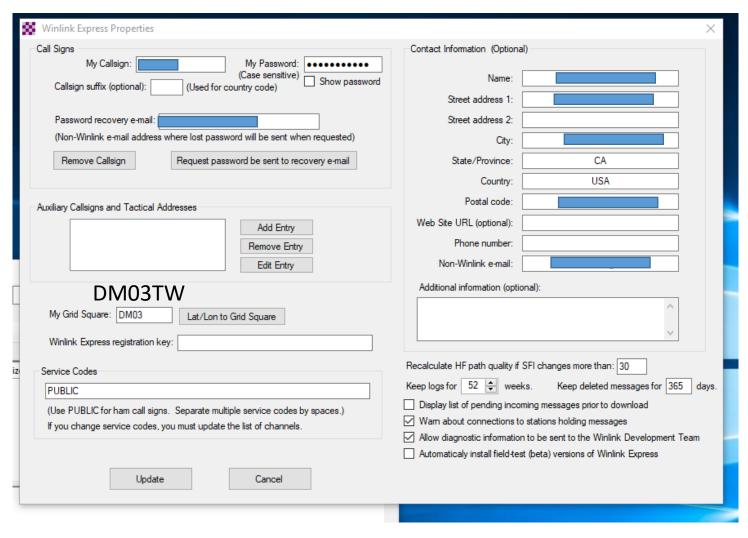
- Go to website https://www.winlink.org/
- Download Winlink Express
- My big issue it needs Microsoft .Net 3.5 framework 3.5 to operate (this is the software that does the port mapping, USB, and data control)
 - Took about 30 45 mins to install







Install / Boot Up Winlink

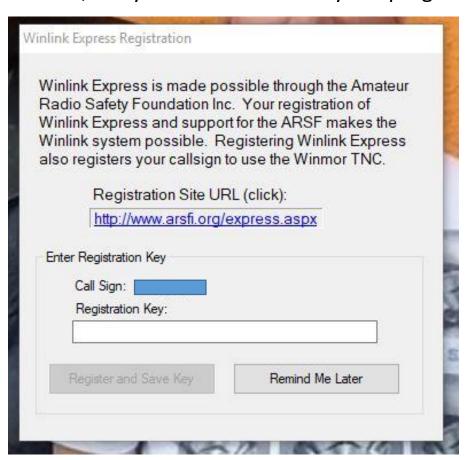


- Install winlink
- Will take you right into Setup
- Create account and password
- call sign @ winlink.org
- Know your 6 letter Grid Square or know your Lat/ Long



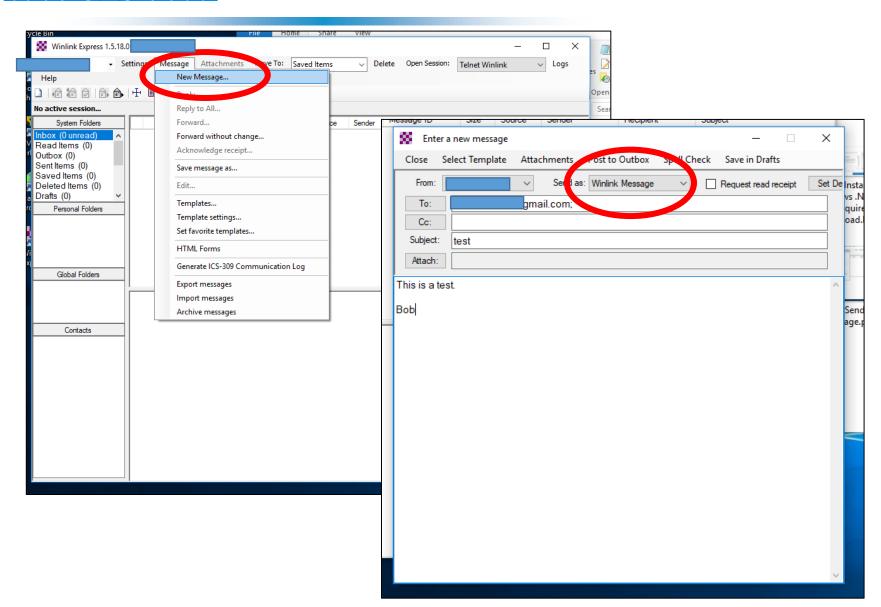
Nag screen ...

You will get a nag screen when you open the application again. The Nag screen will make you wait a bit, before it lets you select "remind me later", but you don't have to buy the program or get a registration key.



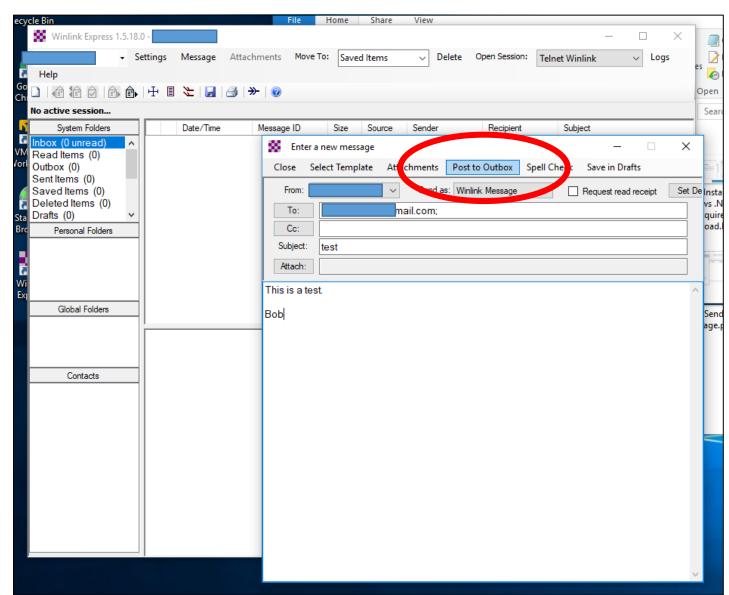


Create an Email





Post Message to Outbox





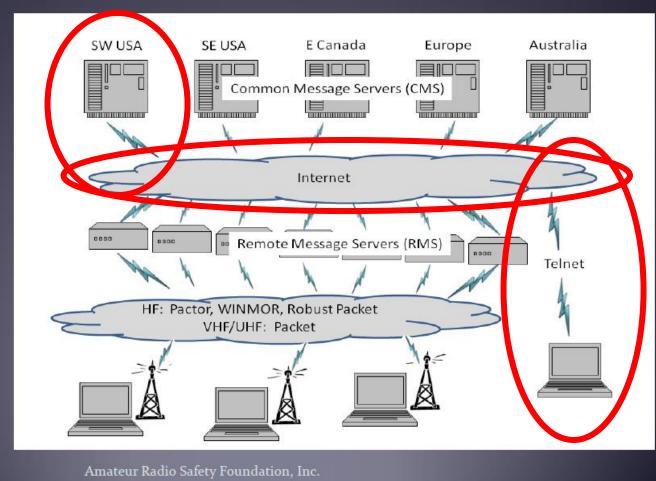
Now - Try a Telnet Email



CMS

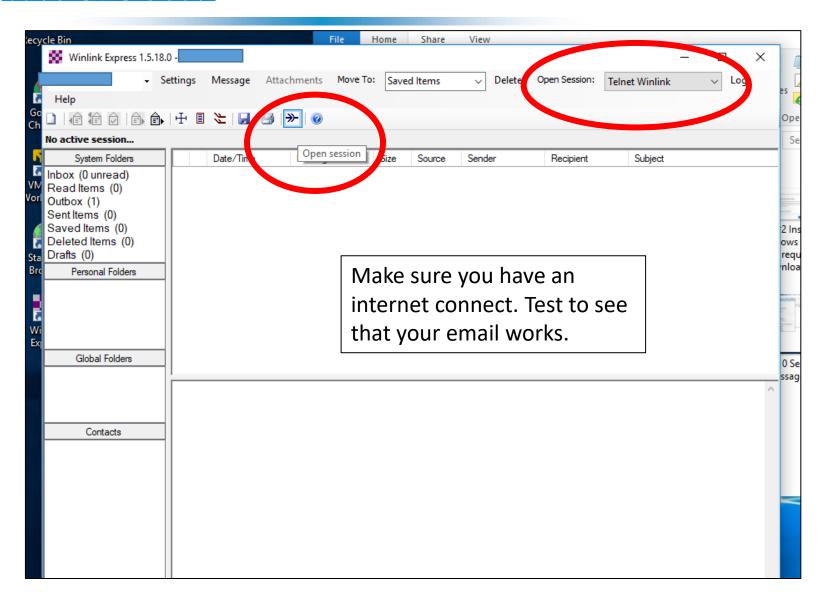
RMS (gateway)

Client (you)



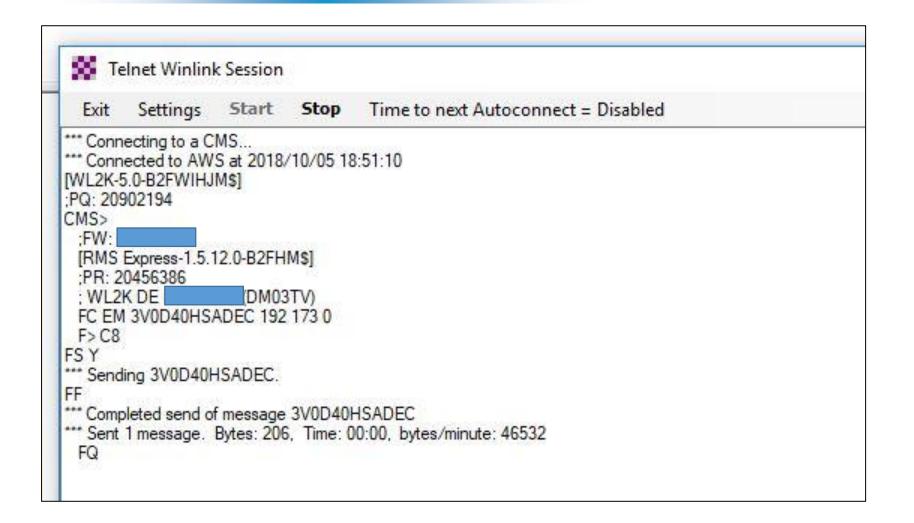


Open a Telnet session



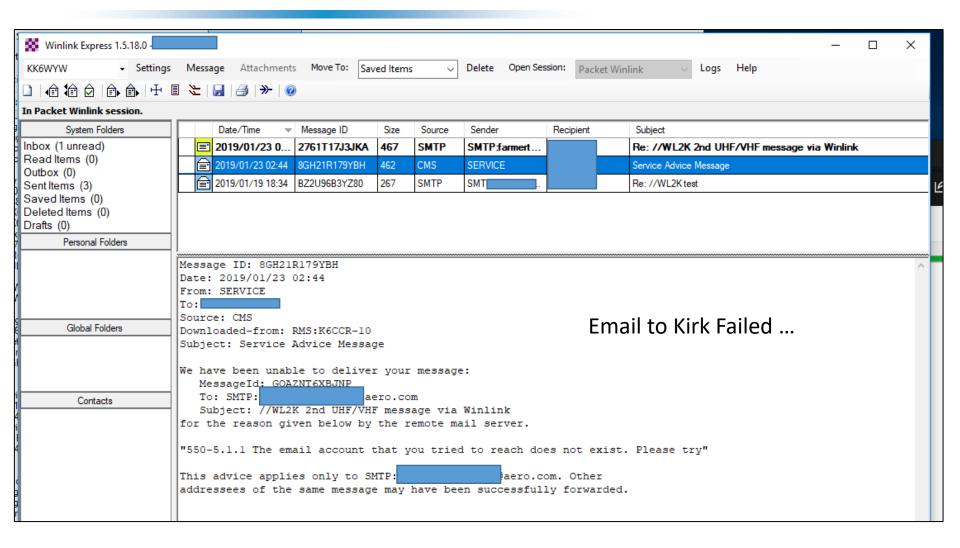


Telnet Session



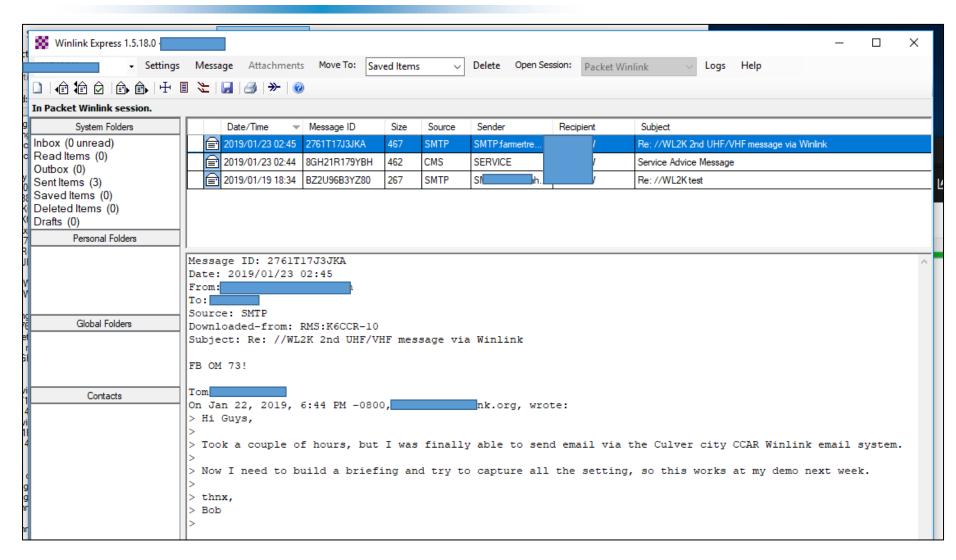


SMTP Feedback



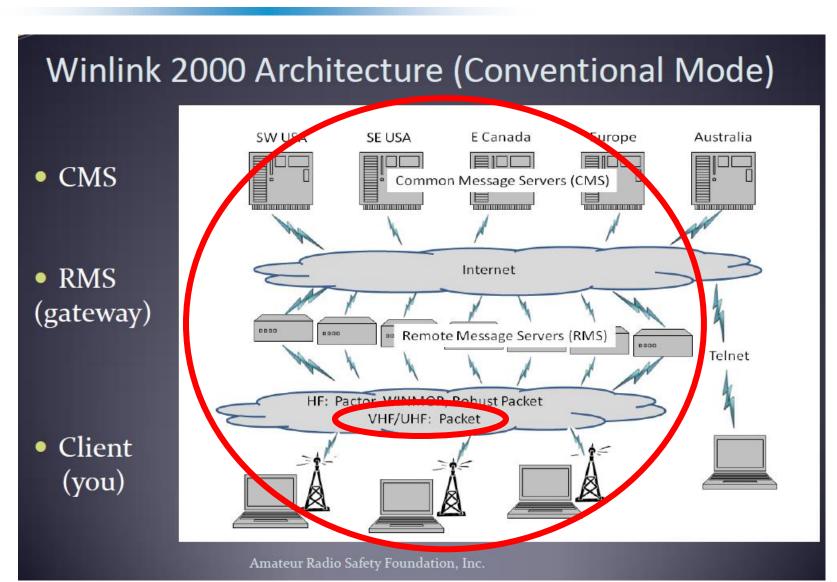


Tom's Reply



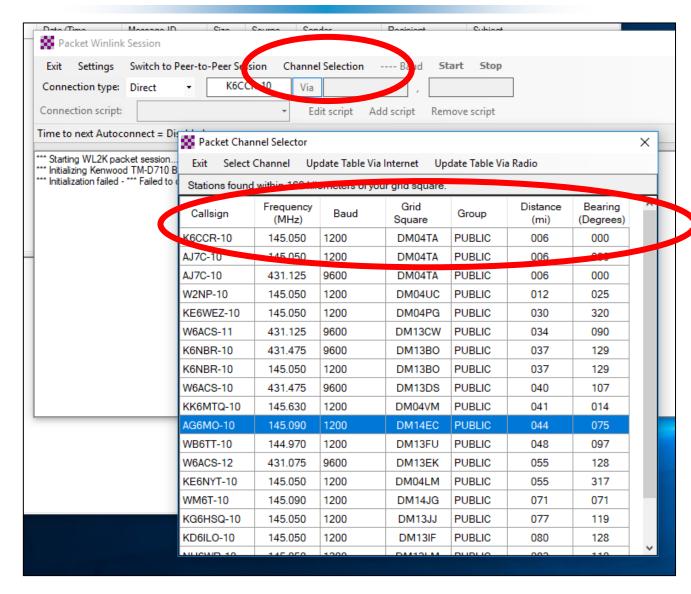


Now - Try a Radio Email





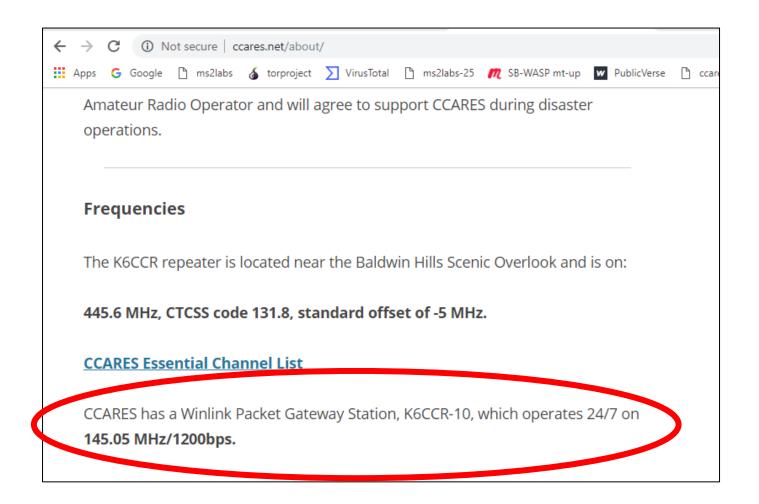
Find a station



- 1. Need internet
- 2. Pick a station,
 - Close is good
 - Notice Data Rate
 - -- 2 meter vs 70 cm

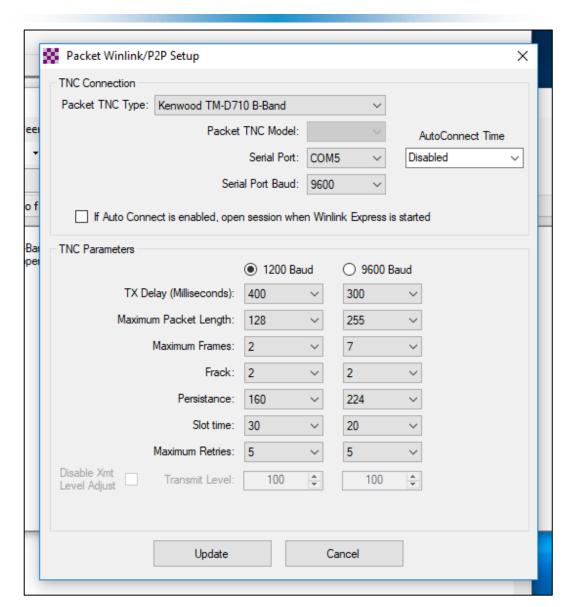


Find a Station





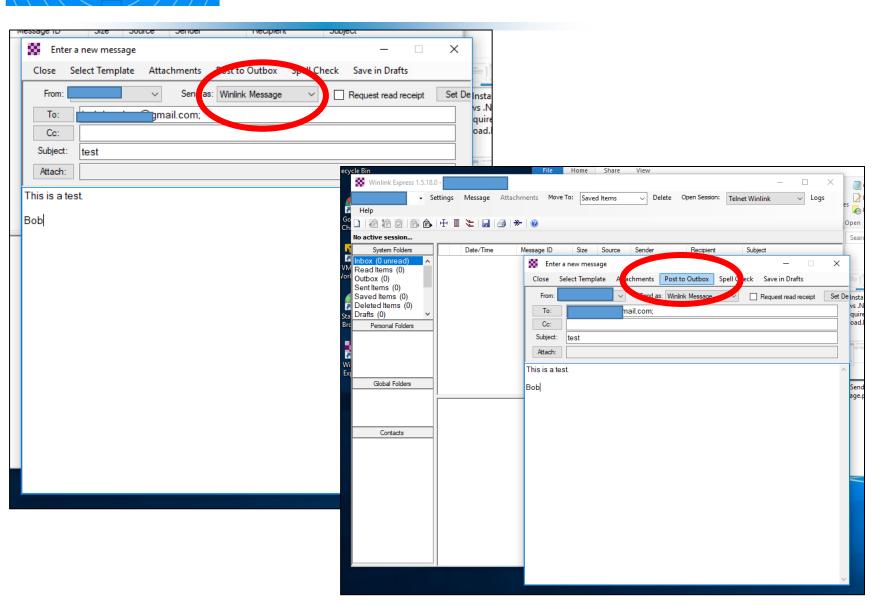
Set up



- Radio and Band
- Port
- TNC parameters
- Important, listen to the channel, set your squelch properly.
- Your radio won't transmit if it hears a busy channel !!

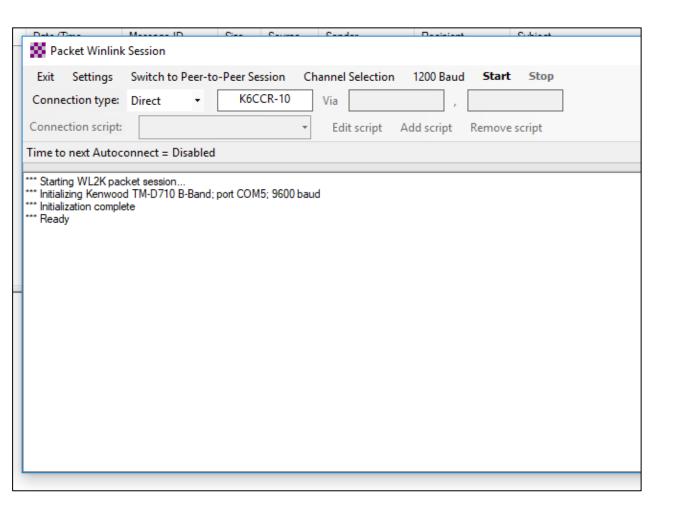


Create email, Post to outbox





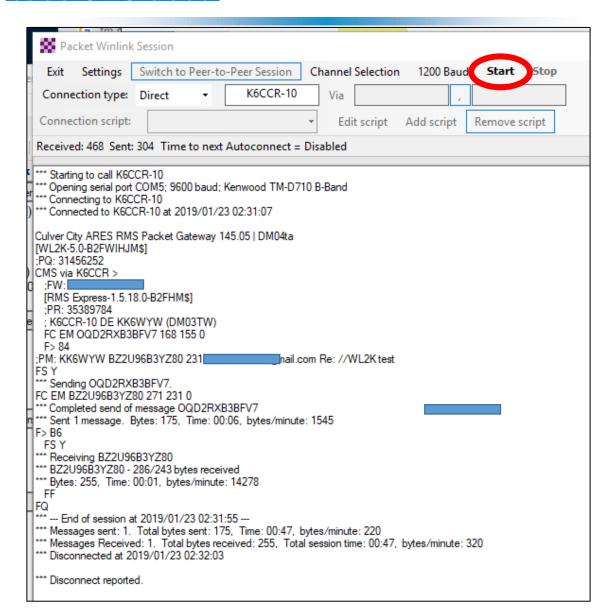
Set up – Connect to the radio



- Radio and Band
- Port
- TNC parameters
- Important, listen to the channel, set your squelch properly.
- Your radio won't transmit if it hears a busy channel !!



A successful connection!!

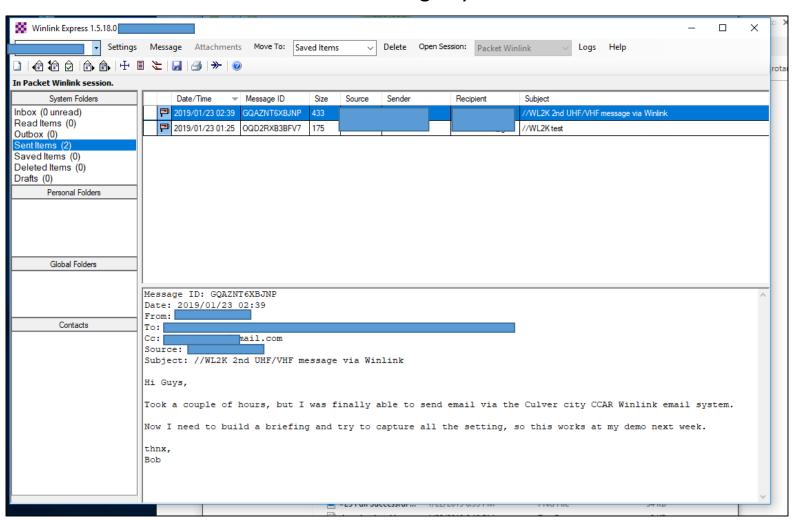


Hit Start ...



Mailbox updates – Kirk email Failed

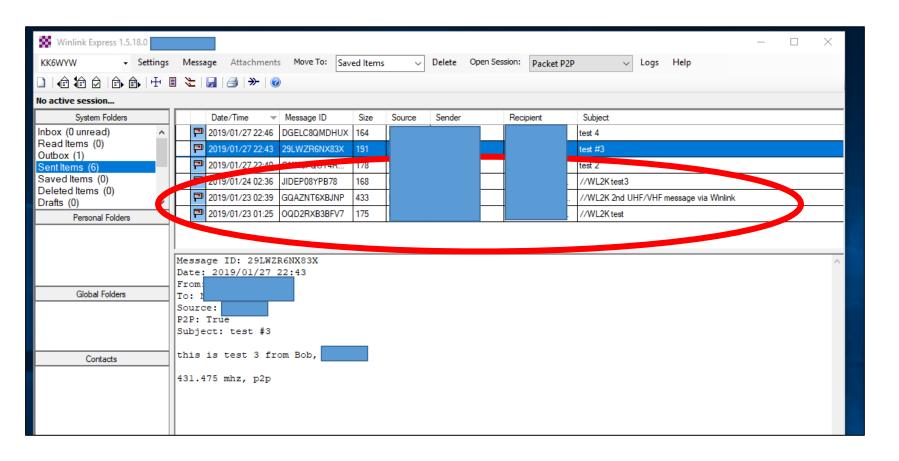
It sends email waiting in your outbox ...





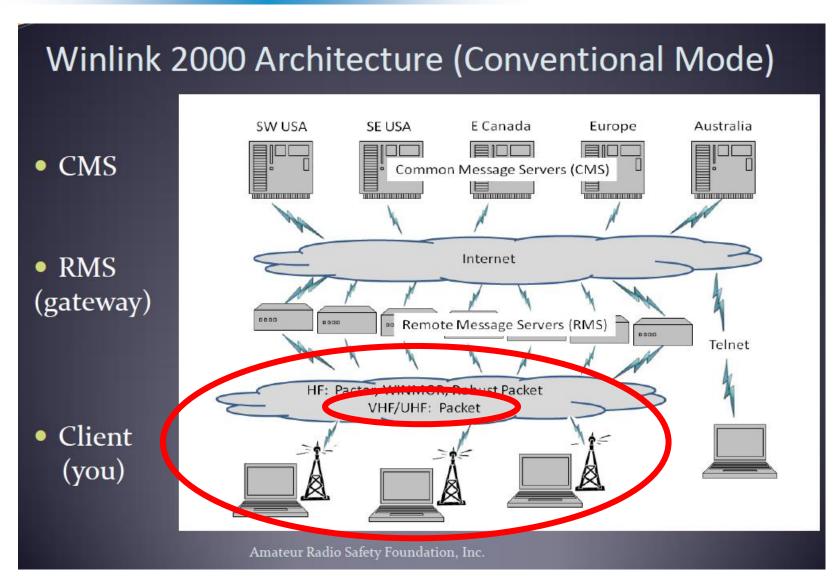
Mailbox updates

Winlink picks up any email that is sitting in the CMS (via internet), and moves it thru your RMS (internet), then via radio back to you, if addressed to you.





Now - Try a Radio P2P Email

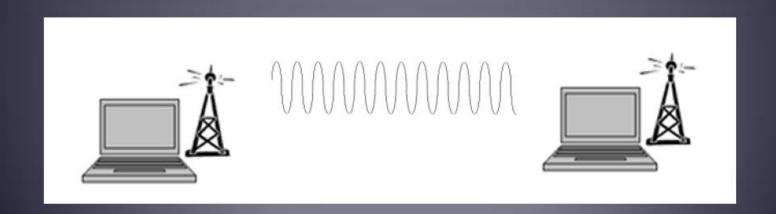




P2P Radio Only

Winlink Peer-To-Peer Radio-Only Operation

- Peer-to-peer: direct radio connection between end-users
- The Internet is not used, all communication by radio.
- Only the two client stations are involved.
- 100% error-free transmission and file attachments.





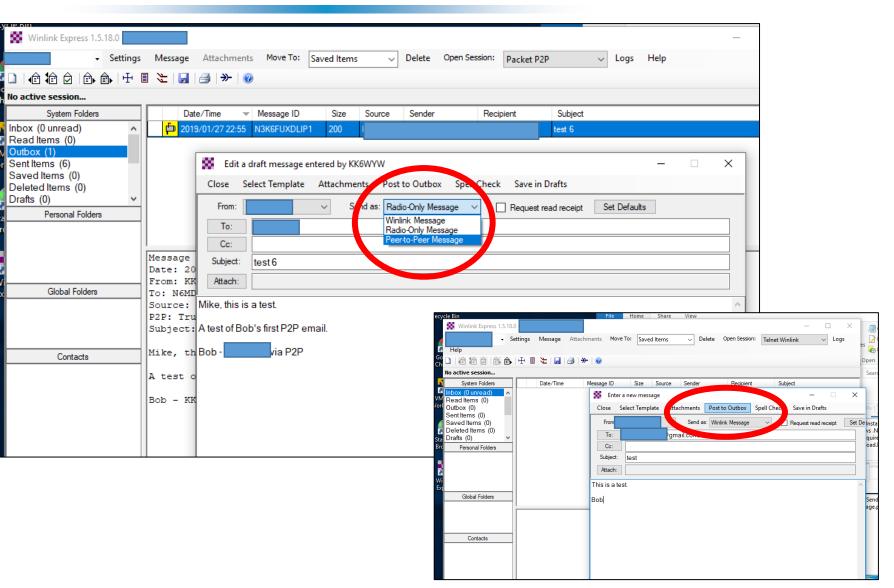
Set up Kenwood Radio



- Talking on the w6HA repeater
- And sending Winlink packets
- Point to Point with Mike V



Make Sure you address your email for P2P, post to outbox



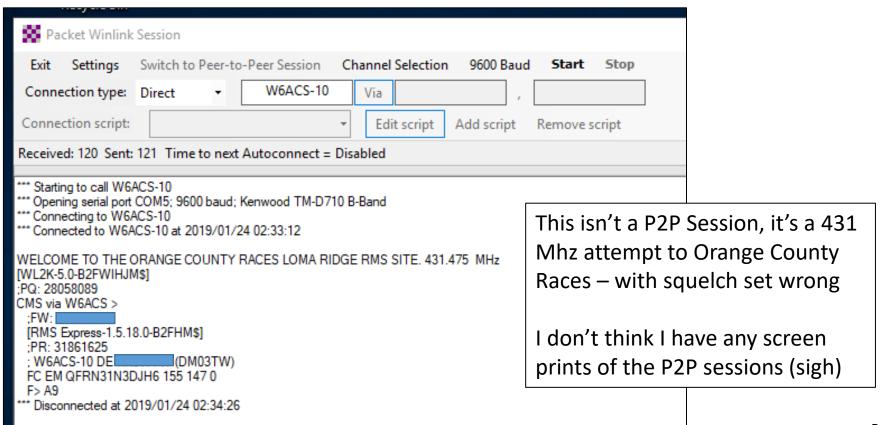


Connect your radio

1. Connect your radio

Disconnect reported

- 2. Either you send or the other person sends, when connect to the radio, it's in listen mode
- 3. Important, listen to the channel, set your squelch properly, your radio won't transmit if it hears a busy channel !!

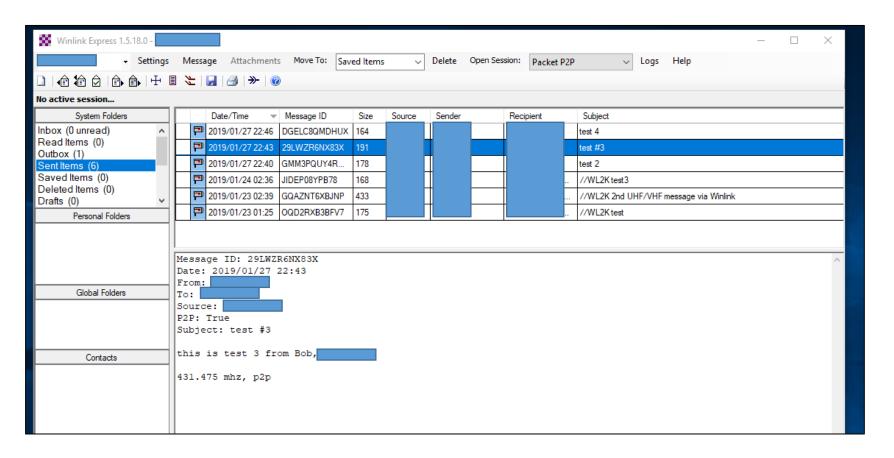




Mailbox updates

It sends email waiting in your outbox, for the recipient (didn't check if it sends others, but I doubt it, we aren't set up to be an RMS)

Recipient sends you email, You send him an email also.





HF Video

https://www.youtube.com/watch?v=96HzlabCJvw



Questions?





Backup slides



.Net and Devices

