Winlink Overview and Demo



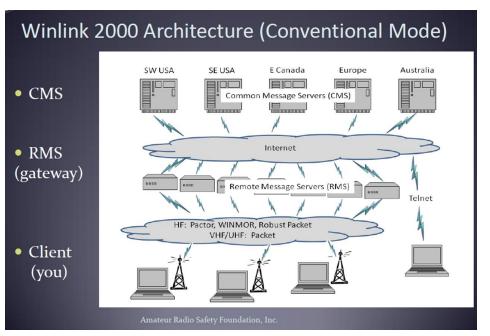


Bob Lanahan Jan 2019



Winlink Overview and Demo

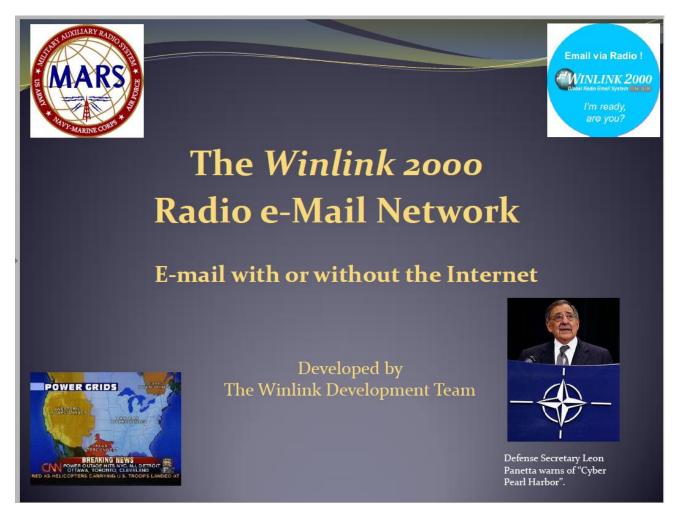
- History Tom's briefing March 2018
- Cables and setup
- Installing Winlink
- Telnet Winlink
- Packet to a Winlink Node (RMS then to/from CMS and back)
- Packet to Packet with another Radio Operator





History

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





The A2 Shack Setup





Cables & Setup

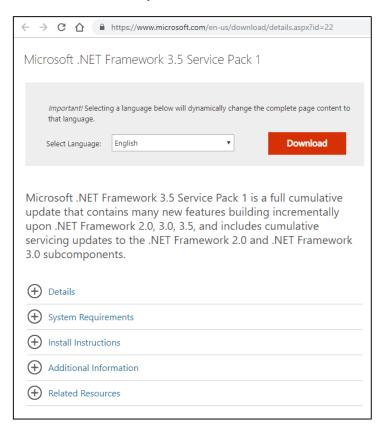
- Ordered a RS-232 to Kenwood Comm cable \$50? one week
- Ordered a USB to RS-232 cable \$20 one week
- Plug the cable in to laptop, it will download drivers (be connect to the internet)
 - It will set up a Comm port (might need if for troubleshooting)
 - Find the comm port using the hardware detection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



Installing Winlink

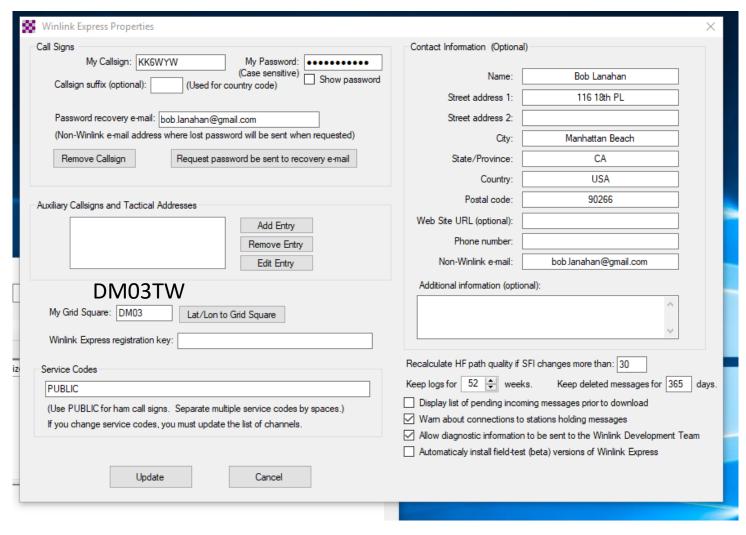
- Go to website https://www.winlink.org/
- Download Winlink Express
- My big issue it needs Microsoft .Net 3.5 framework 3.5 to operate (this is the software that does the port mapping, USB, and data control)
 - Took about 30 45 mins to install







Install / Boot Up Winlink

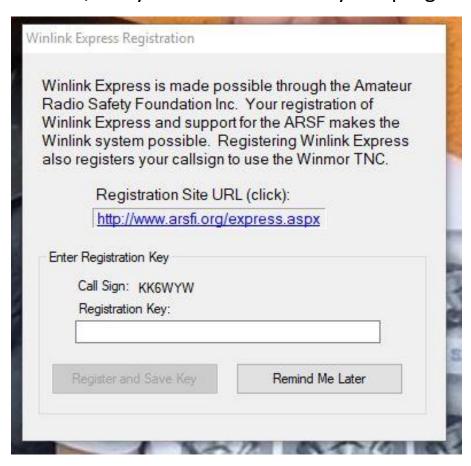


- Install winlink
- Will take you right into Setup
- Create account and password
- call sign @ winlink.org
- Know your 6 letter Grid Square or know your Lat/ Long



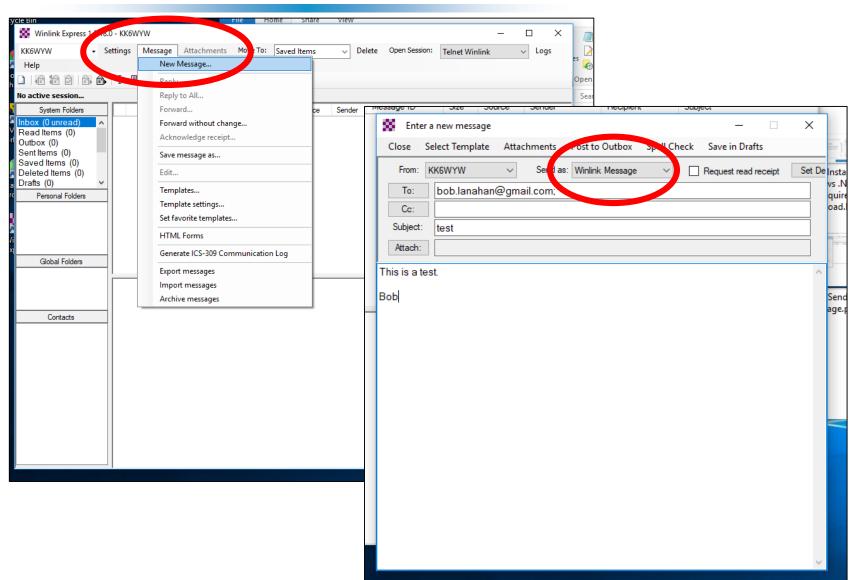
Nag screen ...

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.



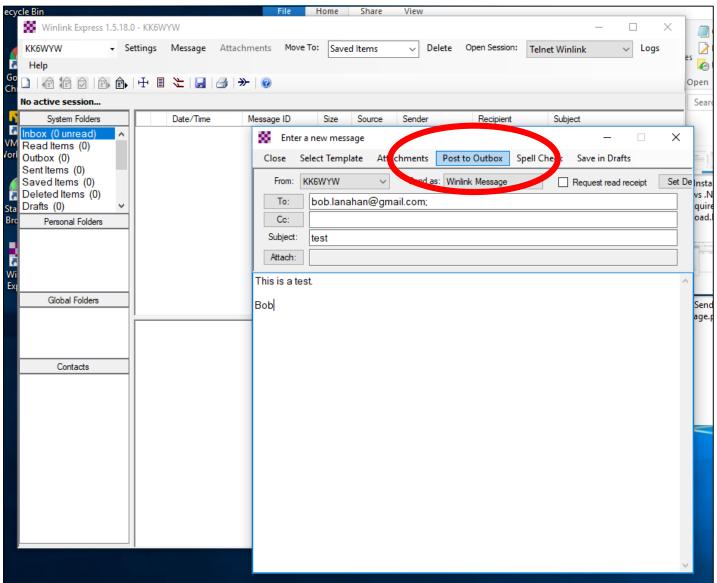


Create an Email





Post Message to Outbox





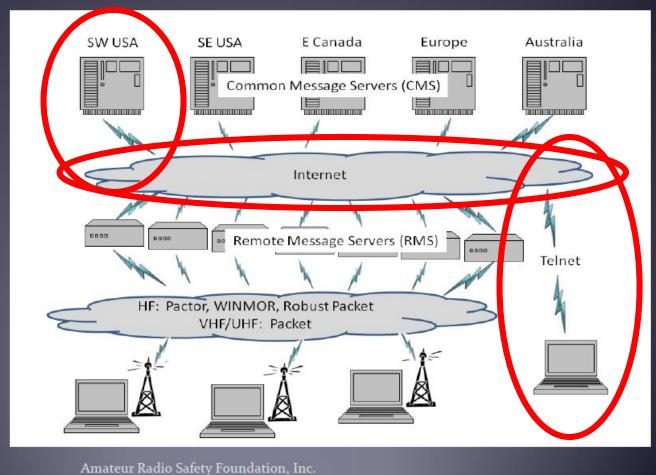
Now - Try a Telnet Email

Winlink 2000 Architecture (Conventional Mode)

CMS

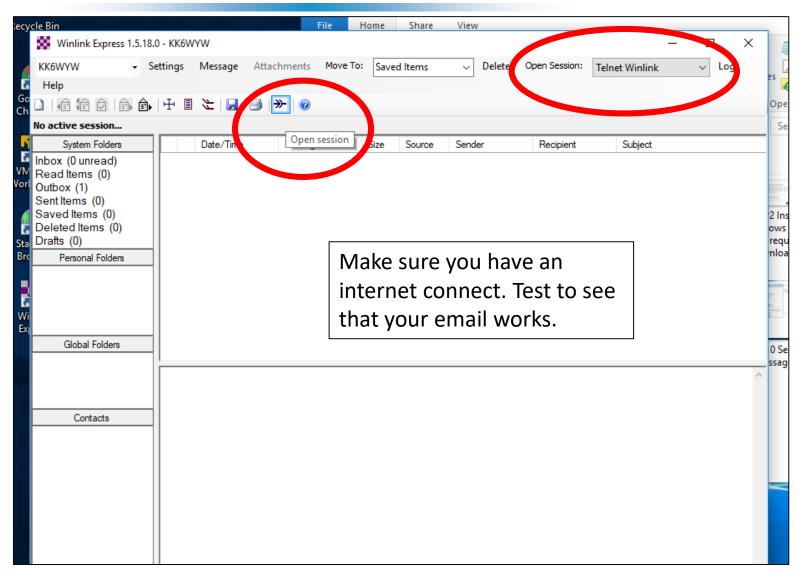
RMS (gateway)

Client (you)



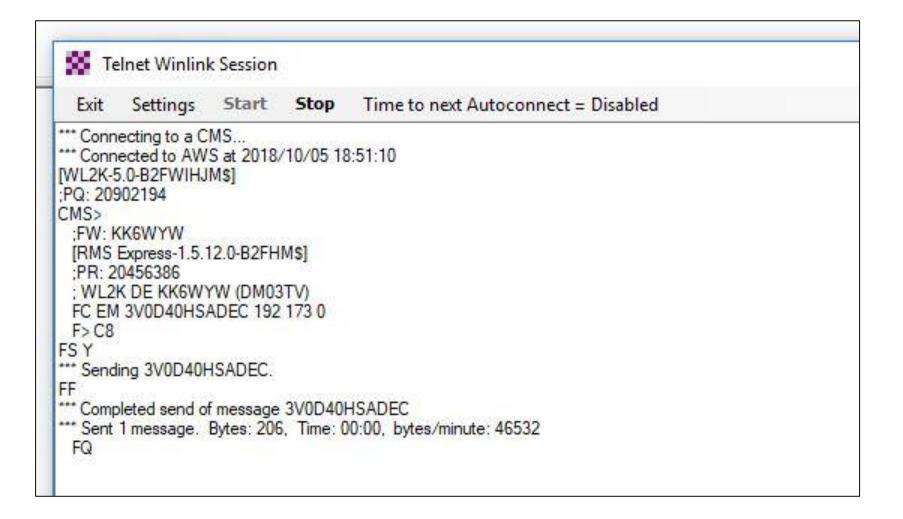


Open a Telnet session



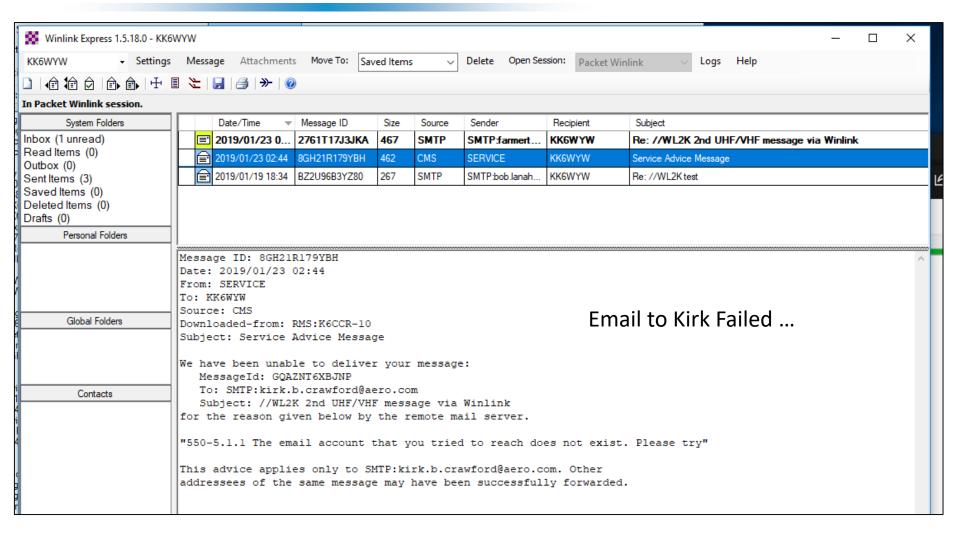


Telnet Session



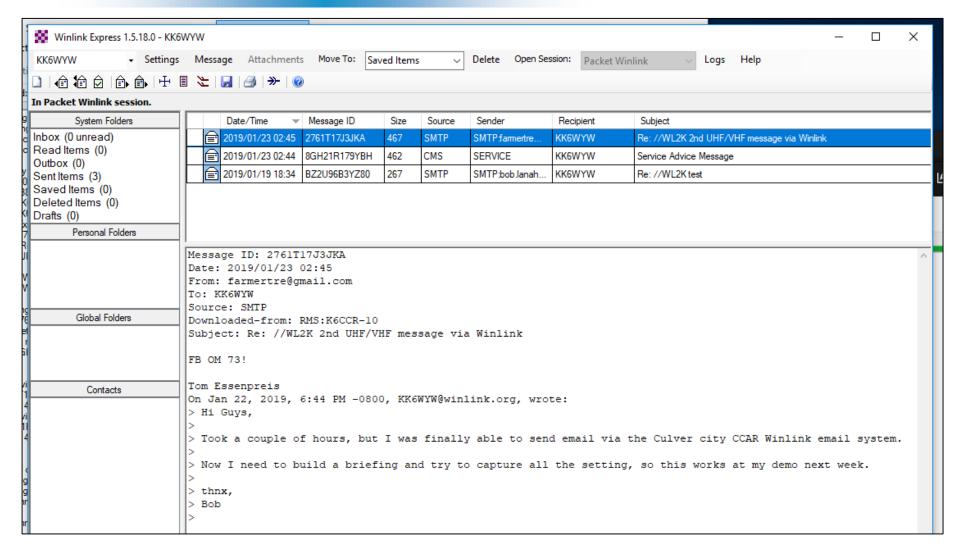


SMTP Feedback





Tom's Reply





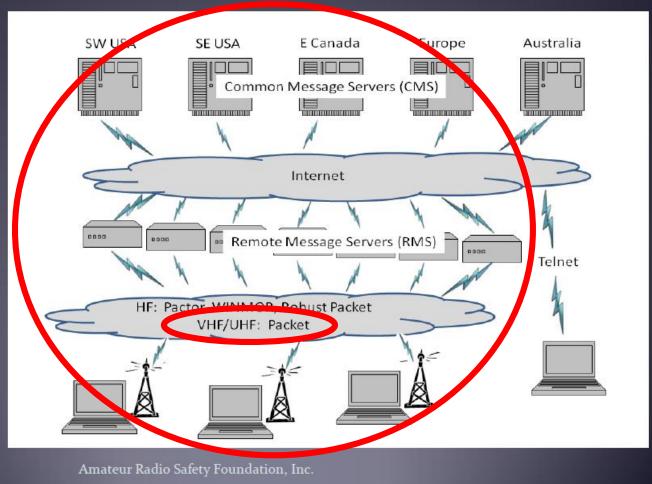
Now - Try a Radio Email

Winlink 2000 Architecture (Conventional Mode)

CMS

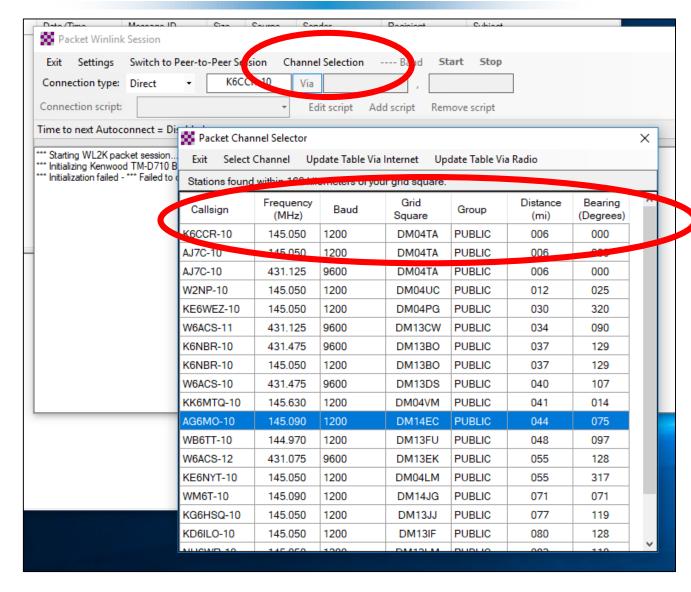
RMS (gateway)

Client (you)





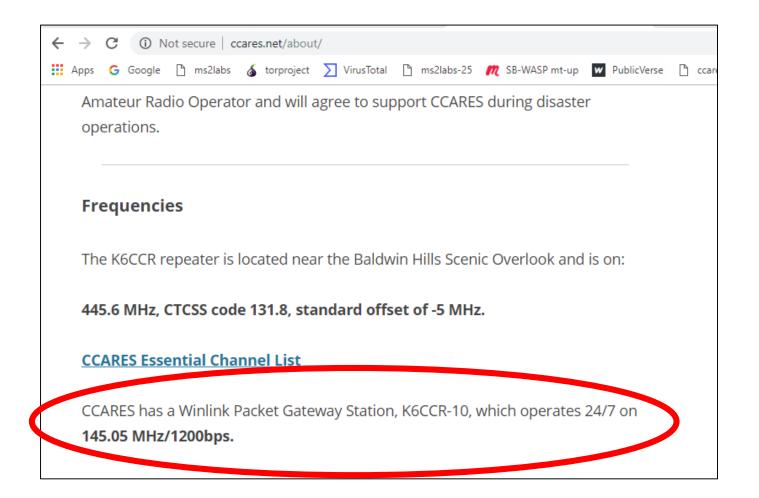
Find a station



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

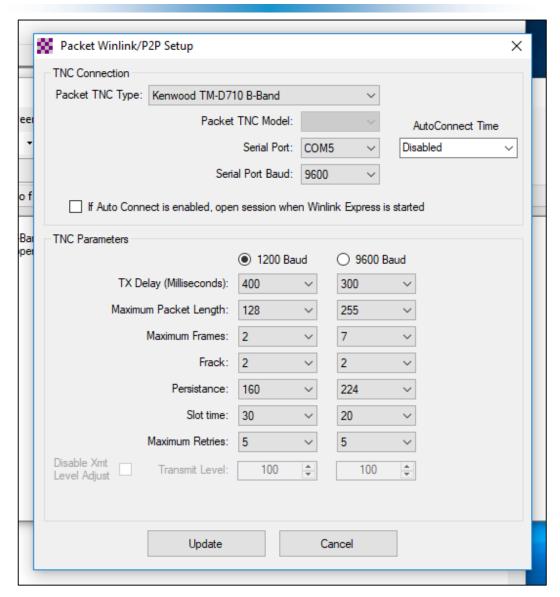


Find a Station





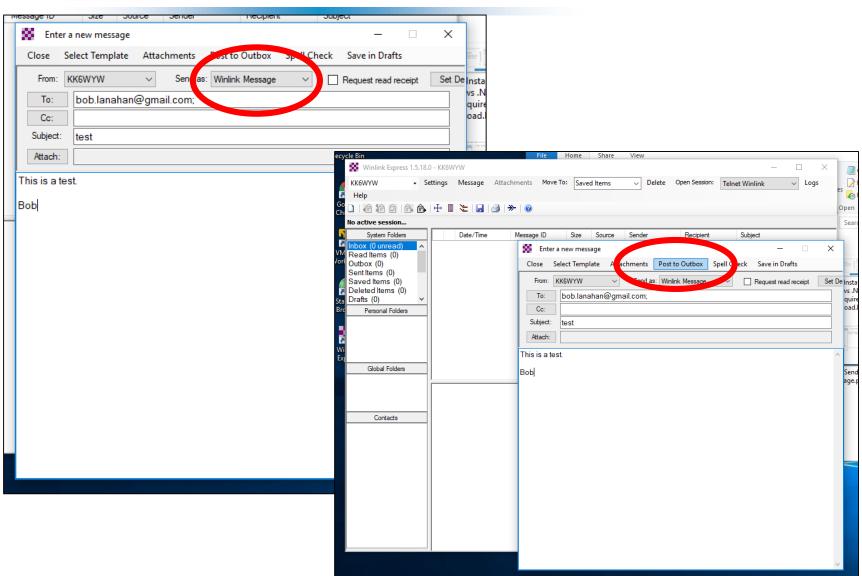
Set up



- 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 !!

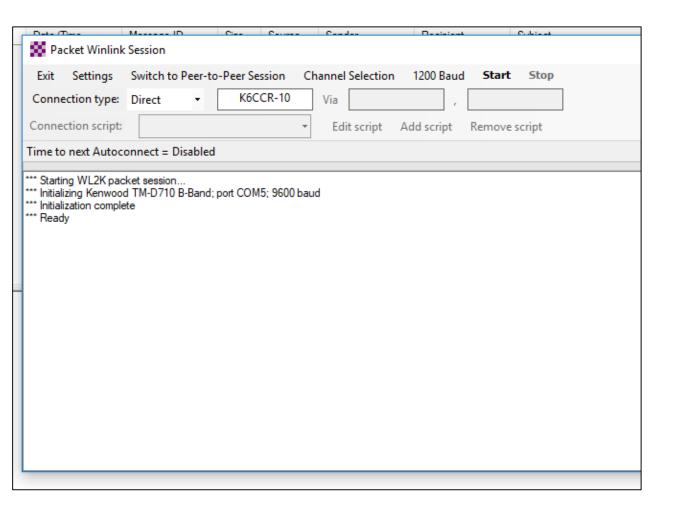


Create email, Post to outbox





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!!

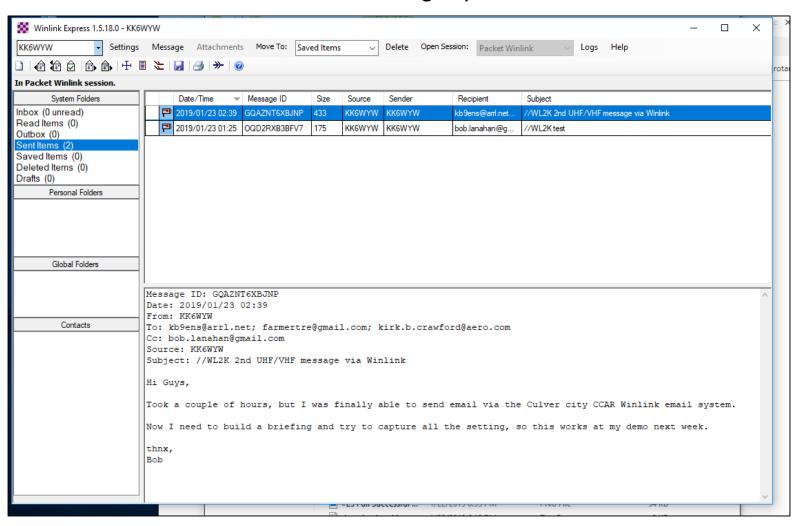
Exit Settings Switch to Peer-to-Peer Session Channel Selection 1200 Baud Start Stop Connection type: Direct	Connection type: Direct	fm d	
Connection type: Direct	Connection type: Direct	Packet Winli	nk Session
Connection script: **Edit script Add script Remove script **Received: 468 Sent: 304 Time to next Autoconnect = Disabled ***Starting to call K6CCR-10 **Opening serial port COM5; 9600 baud; Kenwood TM-D710 B-Band **Connecting to K6CCR-10 **Connecting to K6CCR-10 at 2019/01/23 02:31:07 **Culver City ARES RMS Packet Gateway 145.05 DM04ta **WL2K-5.0-B2FWIHJMS] PQ: 31456252 **MS via K6CCR > **FW: KK6WYW [RMS Express-1.5.18.0-B2FHM\$] ;PR: 35389784 ; K6CCR-10 DE KK6WYW (DM03TW) FC EM OQD2RXB3BFV7 168 155 0 F> 84 PM: KK6WYW BZ2U96B3YZ80 231 bob.lanahan@gmail.com Re: //WL2K test S Y **Sending OQD2RXB3BFV7. C EM BZ2U96B3YZ80 271 231 0 **Completed send of message OQD2RXB3BFV7 **Sent 1 message. Bytes: 175, Time: 00:06, bytes/minute: 1545 **Sending BZ2U96B3YZ80 **BZ2U96B3YZ80 - 286/243 bytes received **Bytes: 255, Time: 00:01, bytes/minute: 14278 FF **Opening Signal Sign	Connection script: **Edit script** Add script** Remove script** **Received: 468 Sent: 304 Time to next Autoconnect = Disabled** ***Starting to call K6CCR-10 ***Opening serial port COM5; 9600 baud; Kenwood TM-D710 B-Band** ***Connecting to K6CCR-10 ***Connecting to K6CCR-10 at 2019/01/23 02:31:07 **Culver Cty ARES RMS Packet Gateway 145.05 DM04ta WLZK-5.0-B2FWIHJMS] **PQ: 31456252 ***MS via K6CCR > :FW: KK6WYW **RMS Express-1.5.18.0-B2FHM\$] ***PR: \$3389784 ***K6CCR-10 DE KK6WYW (DM03TW) ***PC EM OQD2RXB3BFV7 168 155 0 ***PS 84 ***PN: KK6WYW BZ2U96B3YZ80 231 bob.lanahan@gmail.com Re: //WL2K test**SY** ***Sending OQD2RXB3BFV7.** ***Cen B BZ2U96B3YZ80 271 231 0 ***Completed send of message OQD2RXB3BFV7** ***Sent 1 message. Bytes: 175, Time: 00:06, bytes/minute: 1545 ***Sending BZ2U96B3YZ80 ***BZ2U96B3YZ80 - 286/243 bytes received ***Bytes: 255, Time: 00:01, bytes/minute: 14278 ***FF ***GO ****Messages sent: 1. Total bytes sent: 175, Time: 00:47, bytes/minute: 220 ****Messages Received: 1. Total bytes received: 255, Total session time: 00:47, bytes/minute: 320 ***Disconnected at 2019/01/23 02:31:03	Exit Settings	Switch to Peer-to-Peer Session Channel Selection 1200 Baud Start Stop
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Culver City ARES RMS Packet Gateway 145.05 DM04ta WU2K-5.0-B2FWIHJM\$] PQ: 31456252 CMS via K6CCR > :FW: KK6WYW [RMS Express-1.5.18.0-B2FHM\$] :PR: 35389784 : K6CCR-10 DE KK6WYW (DM03TW) FC EM OQD2RXB3BFV7 168 155 0 F> 84 PM: KK6WYW BZ2U96B3YZ80 231 bob.lanahan@gmail.com Re: //WL2K test :S Y ** Sending OQD2RXB3BFV7. CEM BZ2U96B3YZ80 271 231 0 *** Completed send of message OQD2RXB3BFV7 ** Sent 1 message. Bytes: 175, Time: 00:06, bytes/minute: 1545 :> B6 FS Y ** Receiving BZ2U96B3YZ80 ** BZ2U96B3YZ80 - 286/243 bytes received ** Bytes: 255, Time: 00:01, bytes/minute: 14278 FF	Culver City ARES RMS Packet Gateway 145.05 DM04ta WL2K-5.0-B2FWIHJM\$] PQ: 31456252 CMS via K6CCR > :FW: KK6WYW [RMS Express-1.5.18.0-B2FHM\$] :PR: 35389784 : K6CCR-10 DE KK6WYW (DM03TW) FC EM OQD2RXB3BFV7 168 155 0 F> 84 PM: KK6WYW BZ2U96B3YZ80 231 bob.lanahan@gmail.com Re: //WL2K test S Y **Sending OQD2RXB3BFV7. CEM BZ2U96B3YZ80 271 231 0 ***Completed send of message OQD2RXB3BFV7 **Sent 1 message. Bytes: 175, Time: 00:06, bytes/minute: 1545 >>> B6 FS Y **Receiving BZ2U96B3YZ80 **BZ2U96B3YZ80 - 286/243 bytes received **Bytes: 255, Time: 00:01, bytes/minute: 14278 FF GQ ***—End of session at 2019/01/23 02:31:55 **Messages sent: 1. Total bytes sent: 175, Time: 00:47, bytes/minute: 220 ***Messages Received: 1. Total bytes received: 255, Total session time: 00:47, bytes/minute: 320 ***Disconnected at 2019/01/23 02:32:03		
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** End of session at 2019/01/23 02:31:55 ** Messages sent: 1. Total bytes sent: 175, Time: 00:47, bytes/minute: 220 ** Messages Received: 1. Total bytes received: 255, Total session time: 00:47, bytes/minute: 320 ** Disconnected at 2019/01/23 02:32:03	*** End of session at 2019/01/23 02:31:55 *** Messages sent: 1. Total bytes sent: 175, Time: 00:47, bytes/minute: 220 *** Messages Received: 1. Total bytes received: 255, Total session time: 00:47, bytes/minute: 320 *** Disconnected at 2019/01/23 02:32:03	• •	
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** Disconnected at 2019/01/23 02:32:03	*** Disconnected at 2019/01/23 02:32:03		
** Disconnect reported.	*** Disconnect reported.		
** Disconnect reported.	*** Disconnect reported.		
		*** Disconnect repo	nted.

Hit Start ...



Mailbox updates – Kirk email Failed

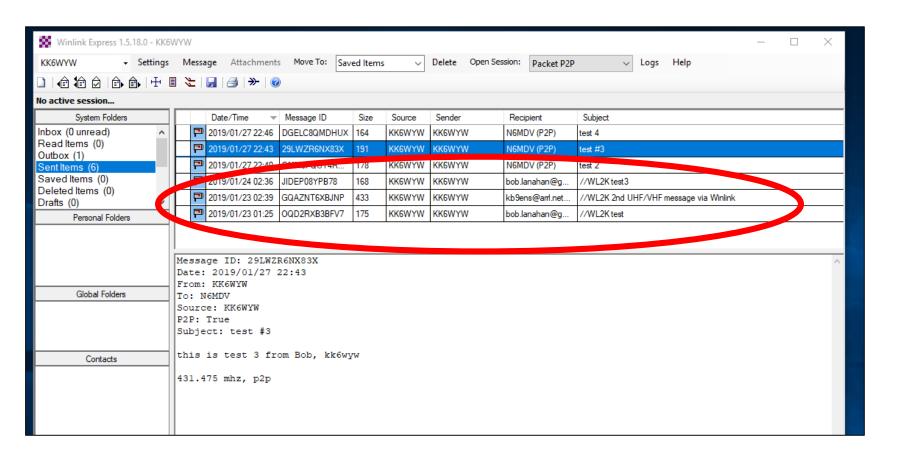
It sends email waiting in your outbox ...





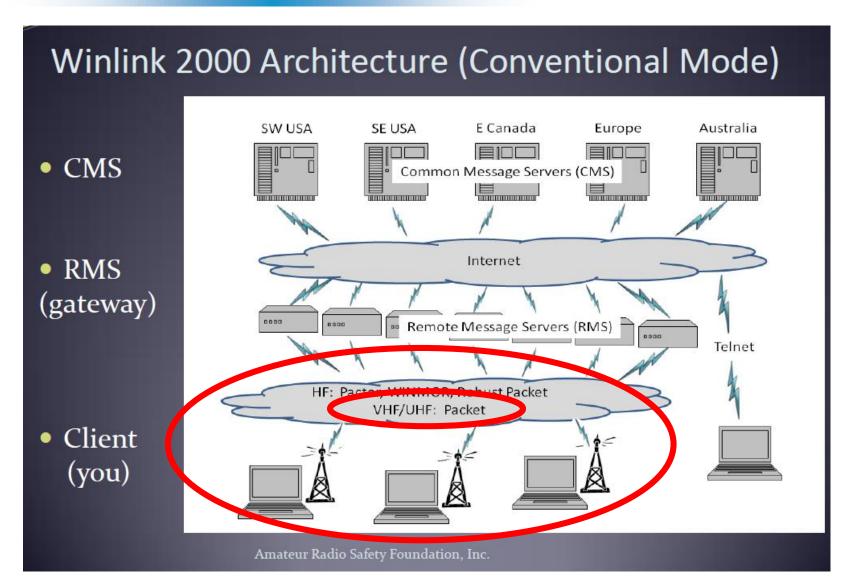
Mailbox updates

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

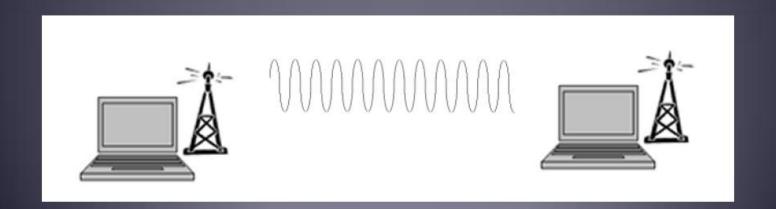




P2P Radio Only

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.





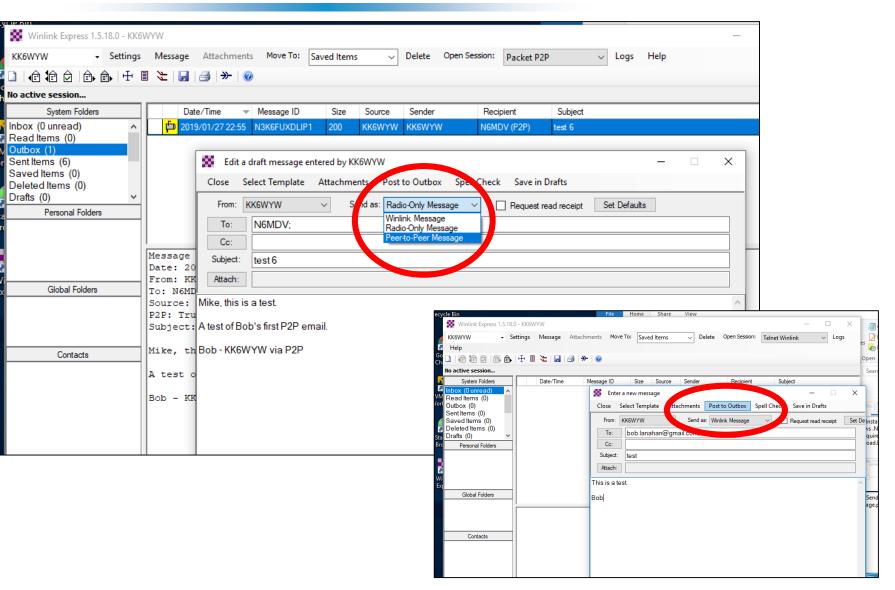
Set up Kenwood Radio



- 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



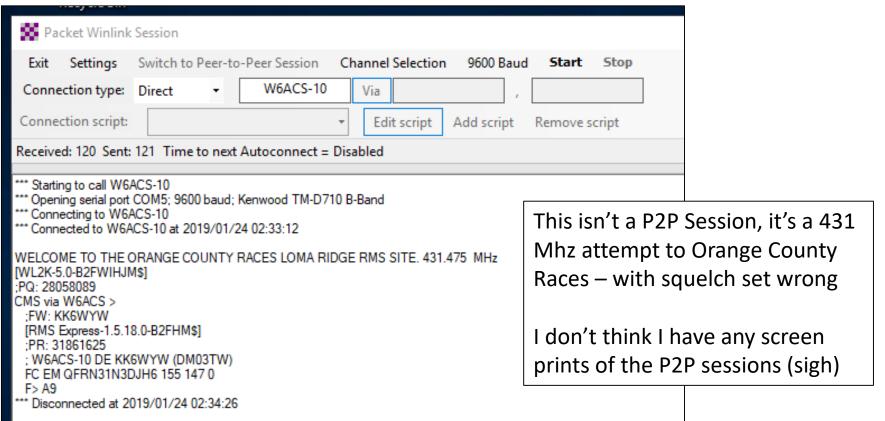


Connect your radio

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 !!

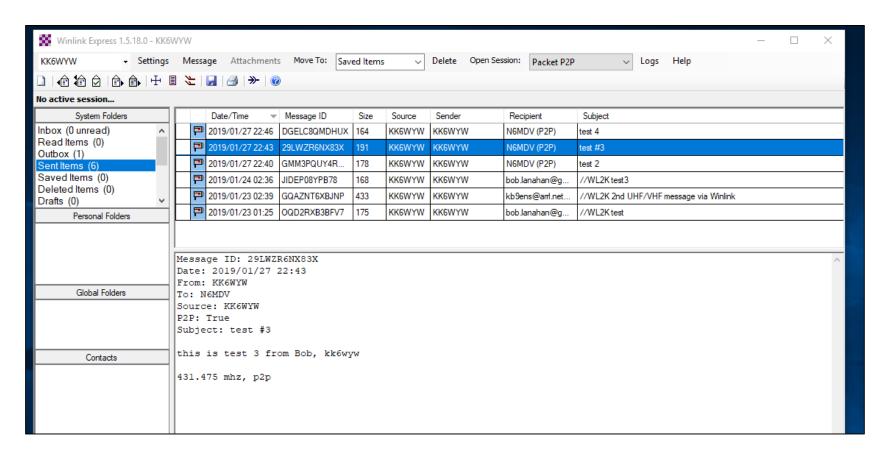




Mailbox updates

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.





Questions?





Backup slides



.Net and Devices

