Using WinLink to send NTS Messages for FD 2020

Bob Lanahan

22 Jun 2020

Version #1

W6TRW Amateur Radio Club

Home of the W6TRW ARC in Redondo Beach California

Winlink Overview & Demo

Bob

W6TRW General Meeting
Tuesday, 9 July 2019 @ 5:30 pm
Roundtable Pizza,
4330 Redondo Bch Blvd, Torrance CA

Outline – Winlink NTS Messaging FD 2020

- Your Setup – Computer, Radio, Connector cables, Software
- How you create a message
- A few Examples – Telnet (internet)
- Sending a radio message – find a Remote Message Server (RMS)
- Example Field Day Messages

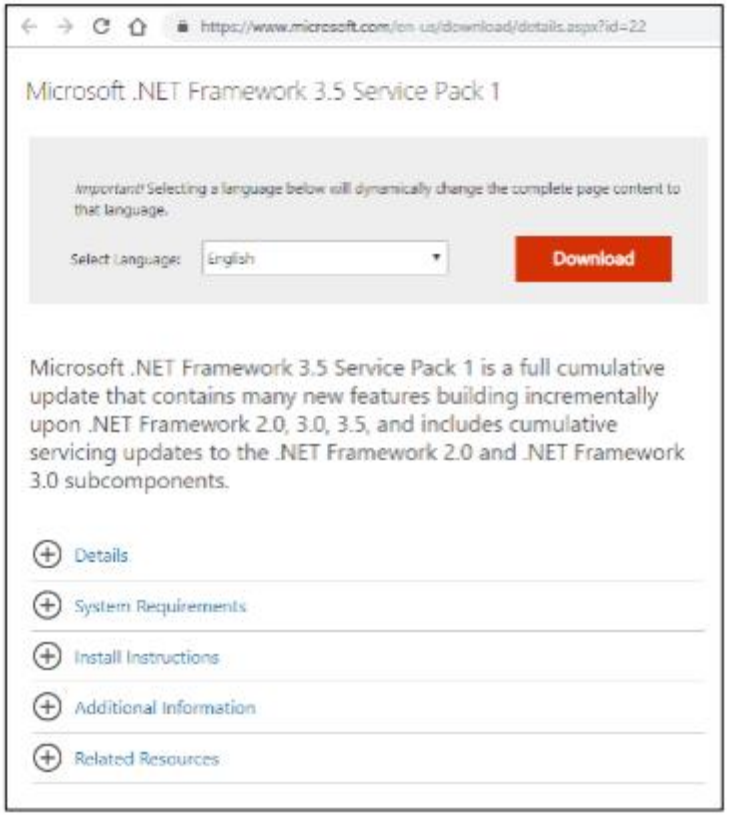
The A2 Shack Setup

Cables & Setup

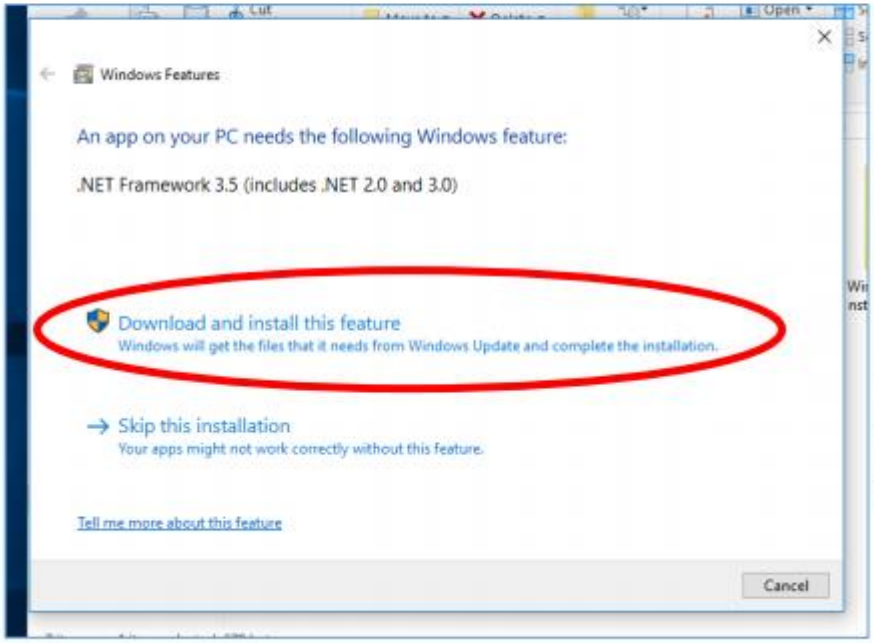
- Ordered a RS-232 to Kenwood Comm cable $50? – one week
- Ordered a USB to RS-232 cable $20 – one week
- Plug the cable in to laptop, it will download drivers (be connected to the internet)
  - It will set up a Comm port (might need if for troubleshooting)
  - Find the comm port using the hardware detection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

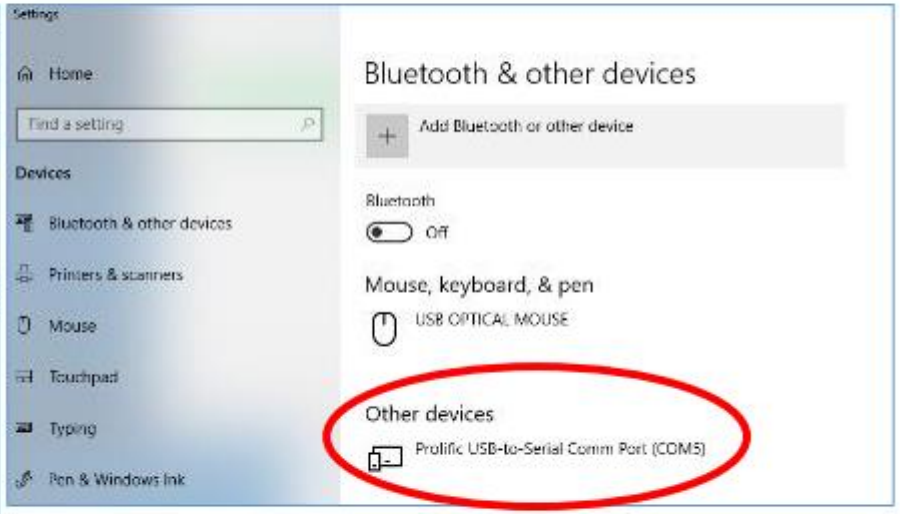
Installing Winlink

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

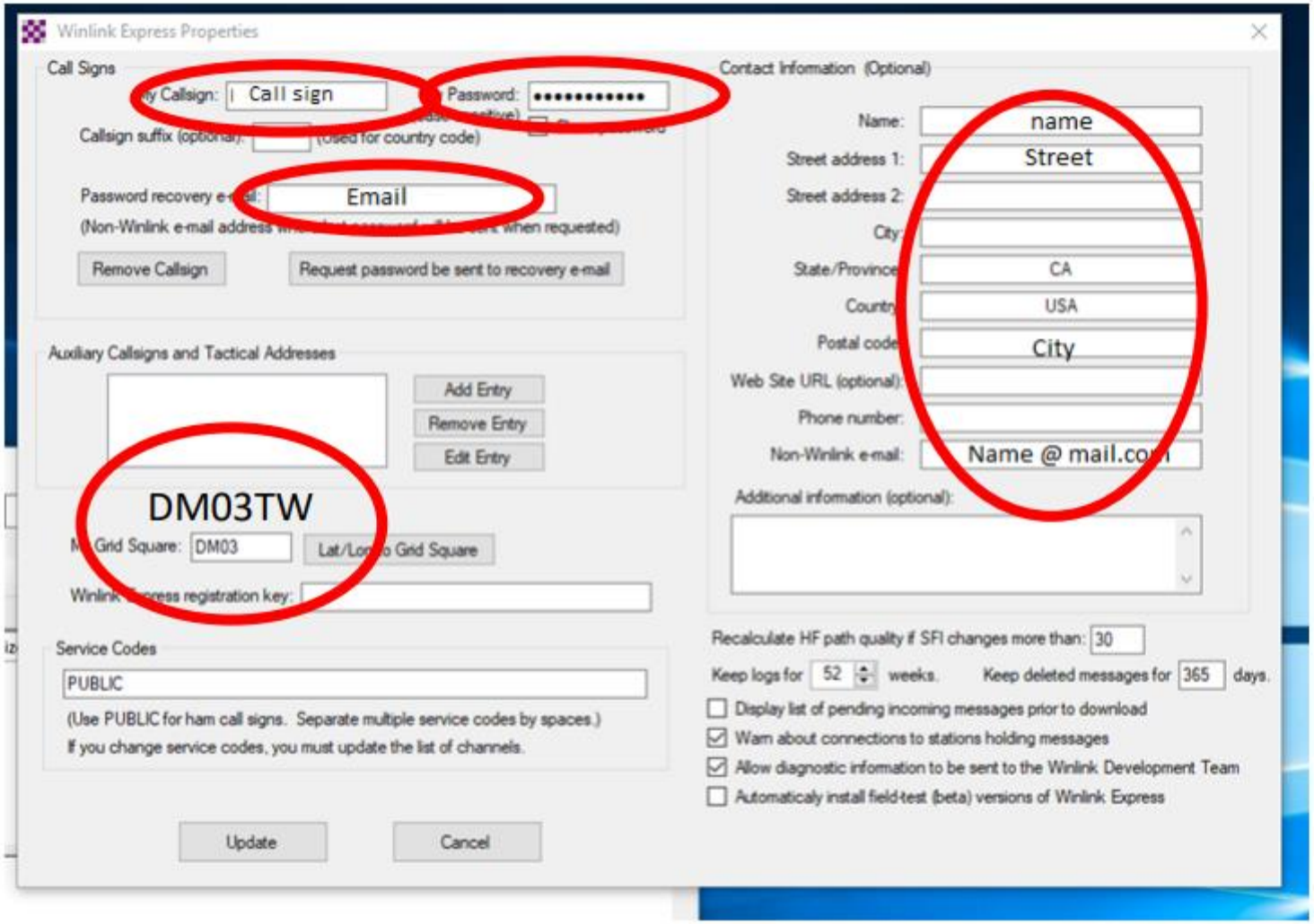


.Net and Devices





Install / Boot Up Winlink

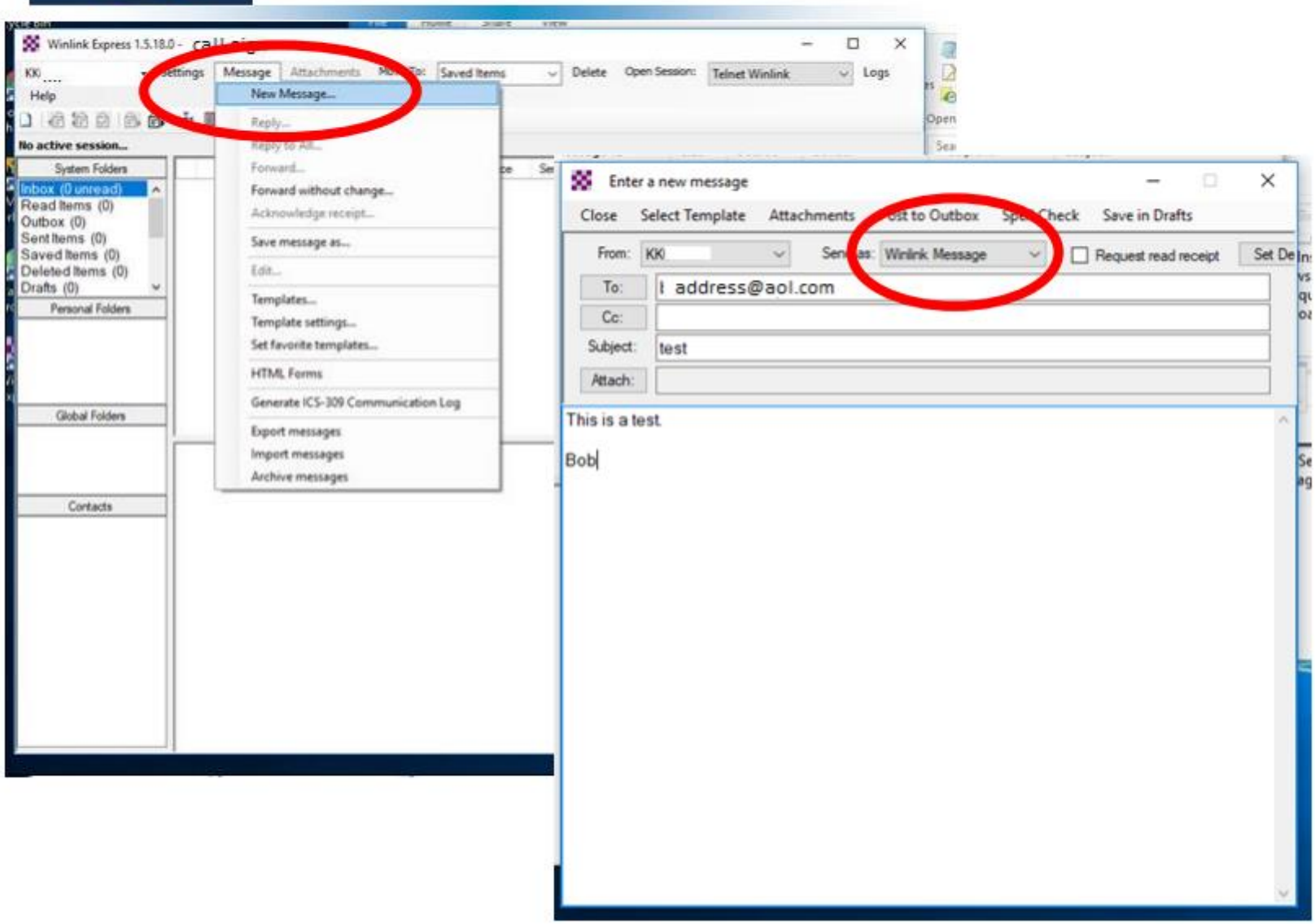


- Install winlink
- Will take you right into Setup
- Create account and password
- call sign @ winlink.org
- Know your 6 letter Grid Square or know your Lat/ Long

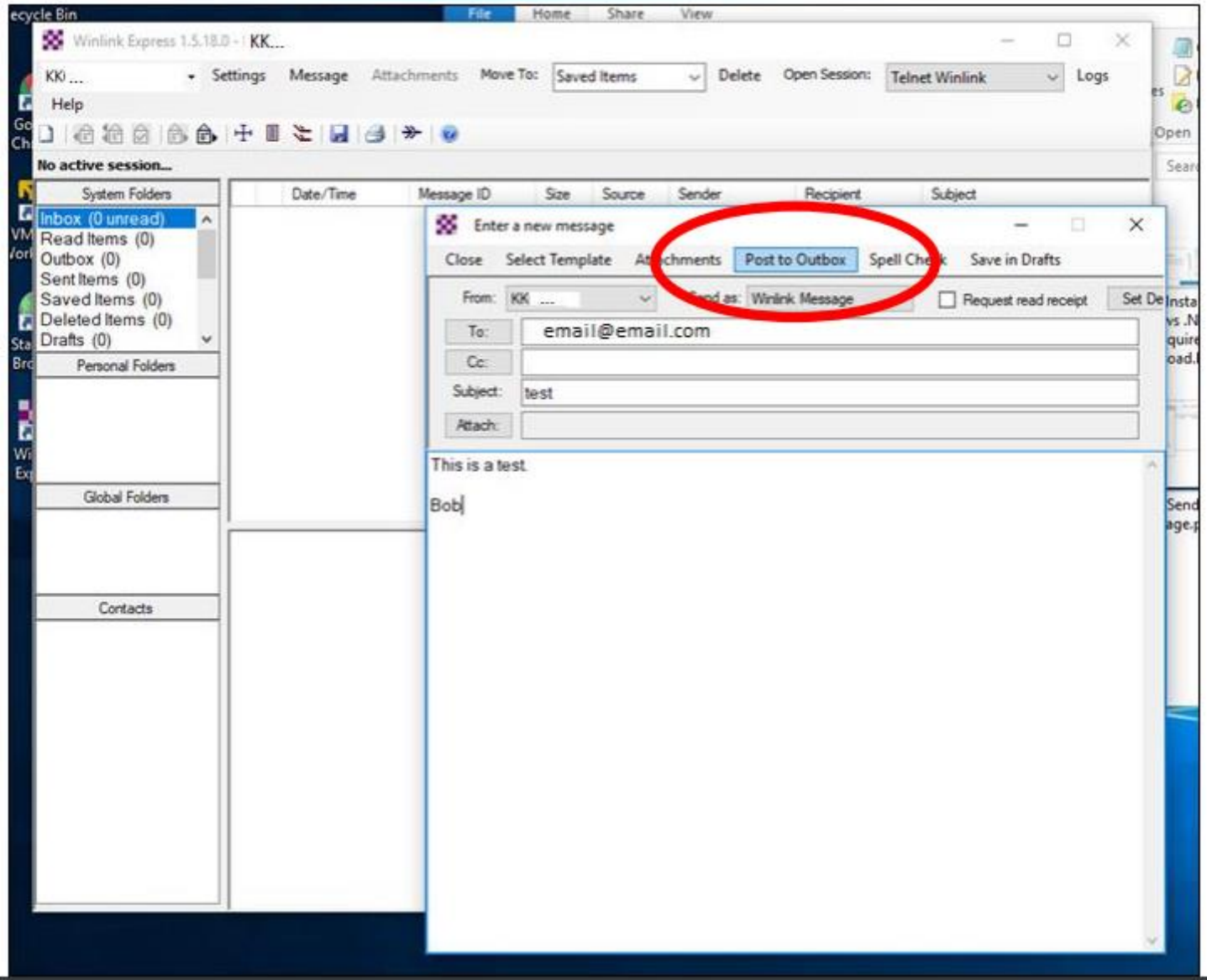
Nag screen …

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

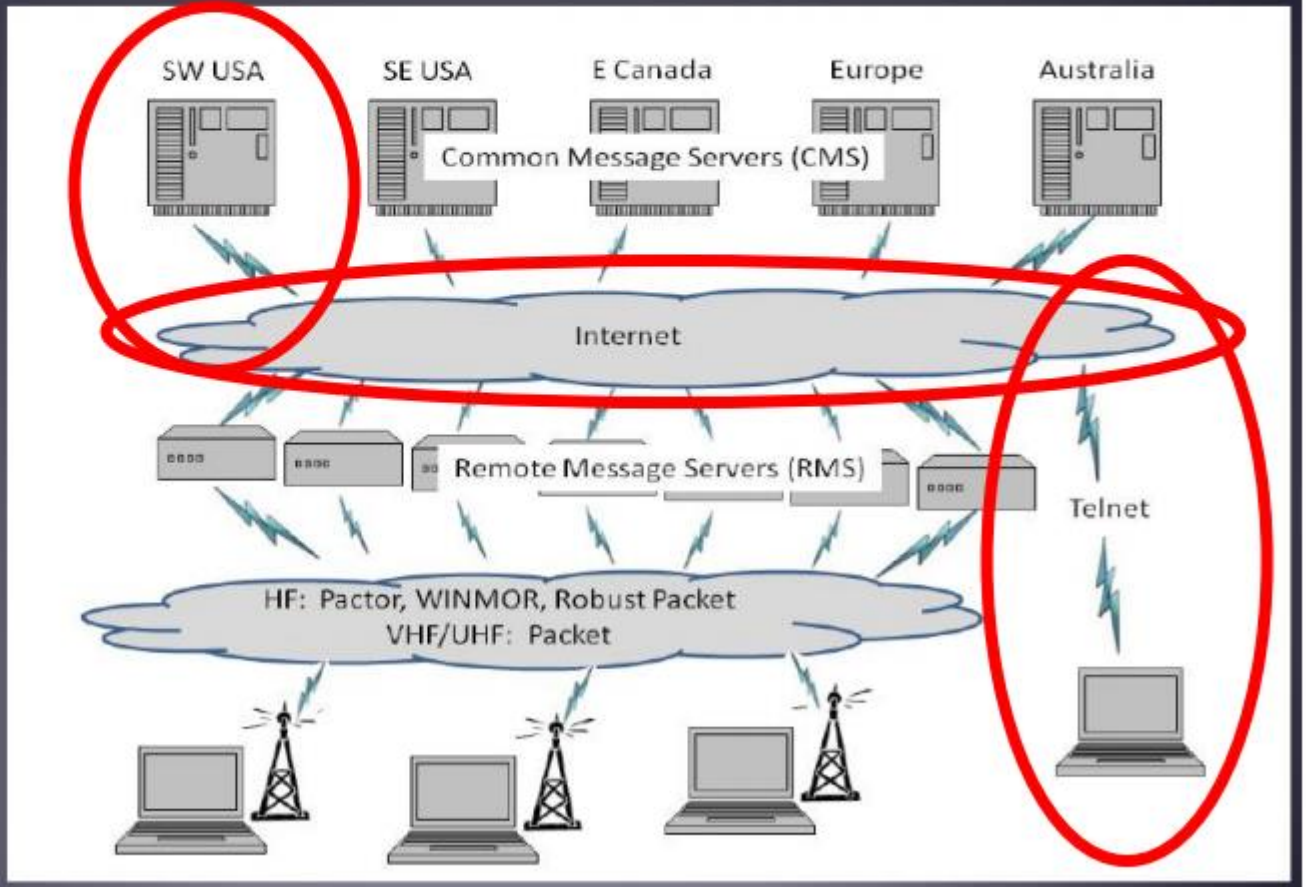


Now - Try a Telnet Email

Uses internet – No point on FD, needs to go RF !!

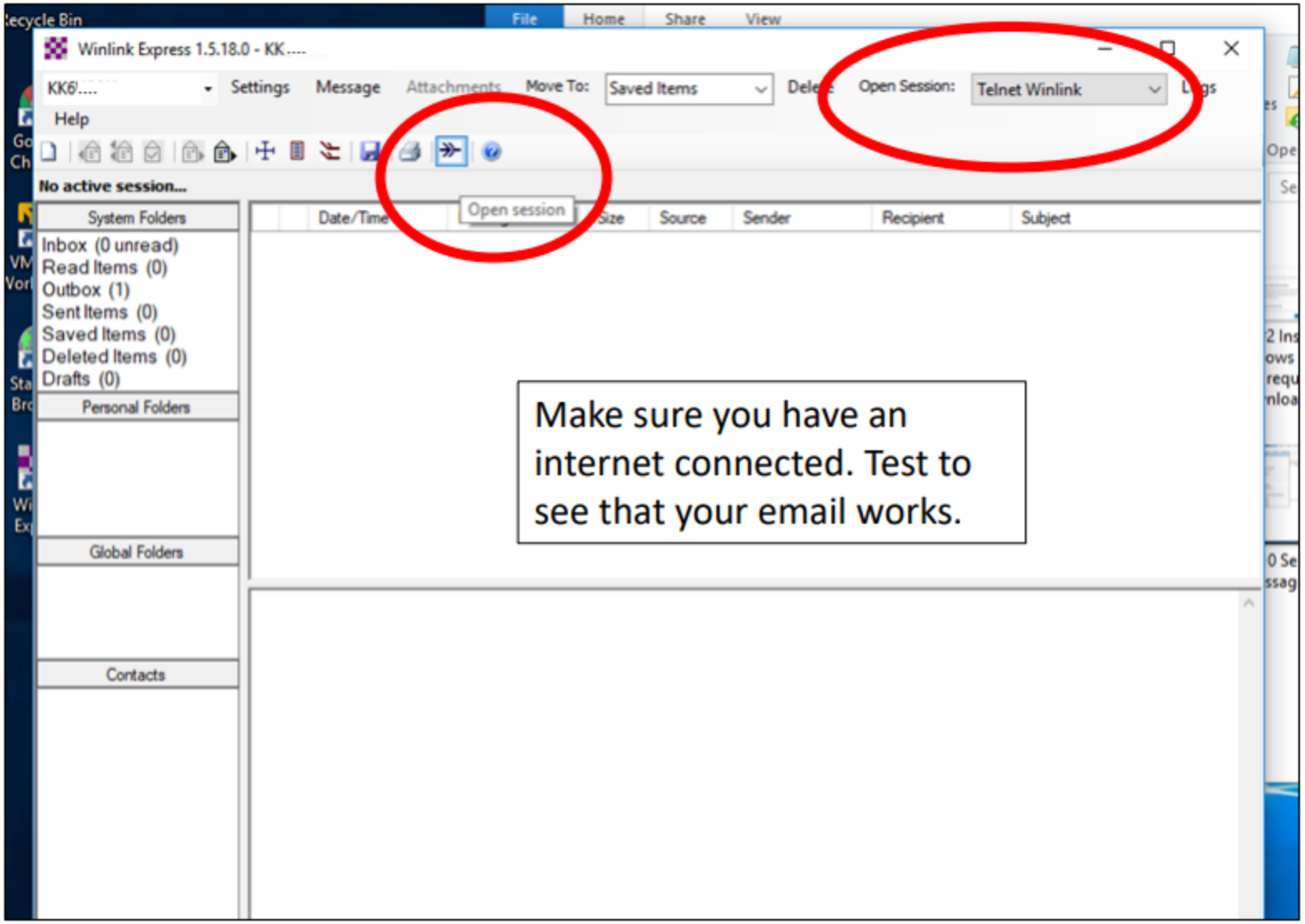
Winlink 2000 Architecture (Conventional Mode)

- CMS
- RMS (gateway)
- Client (you)

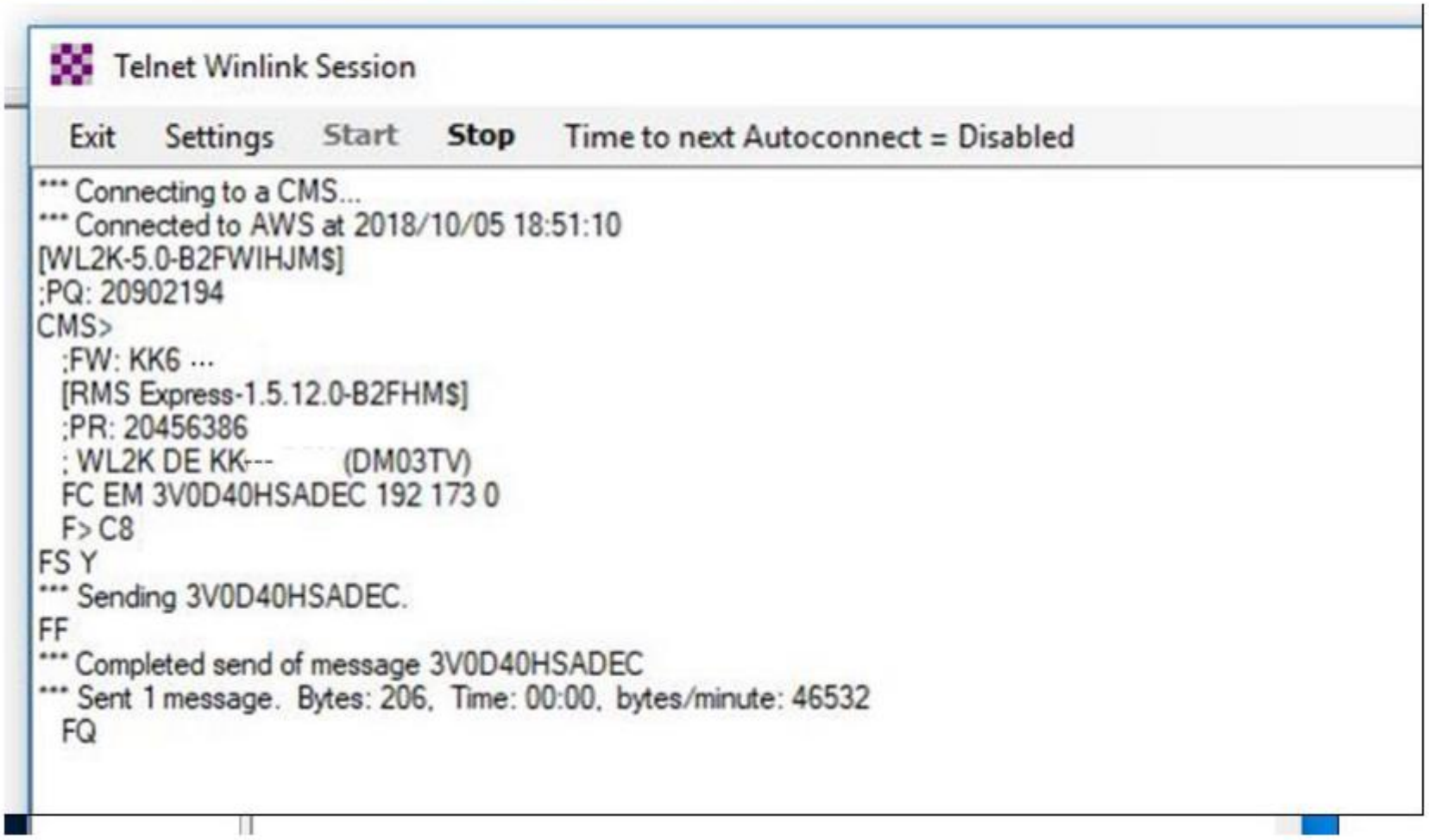


Amateur Radio Safety Foundation, Inc.

Open a Telnet session



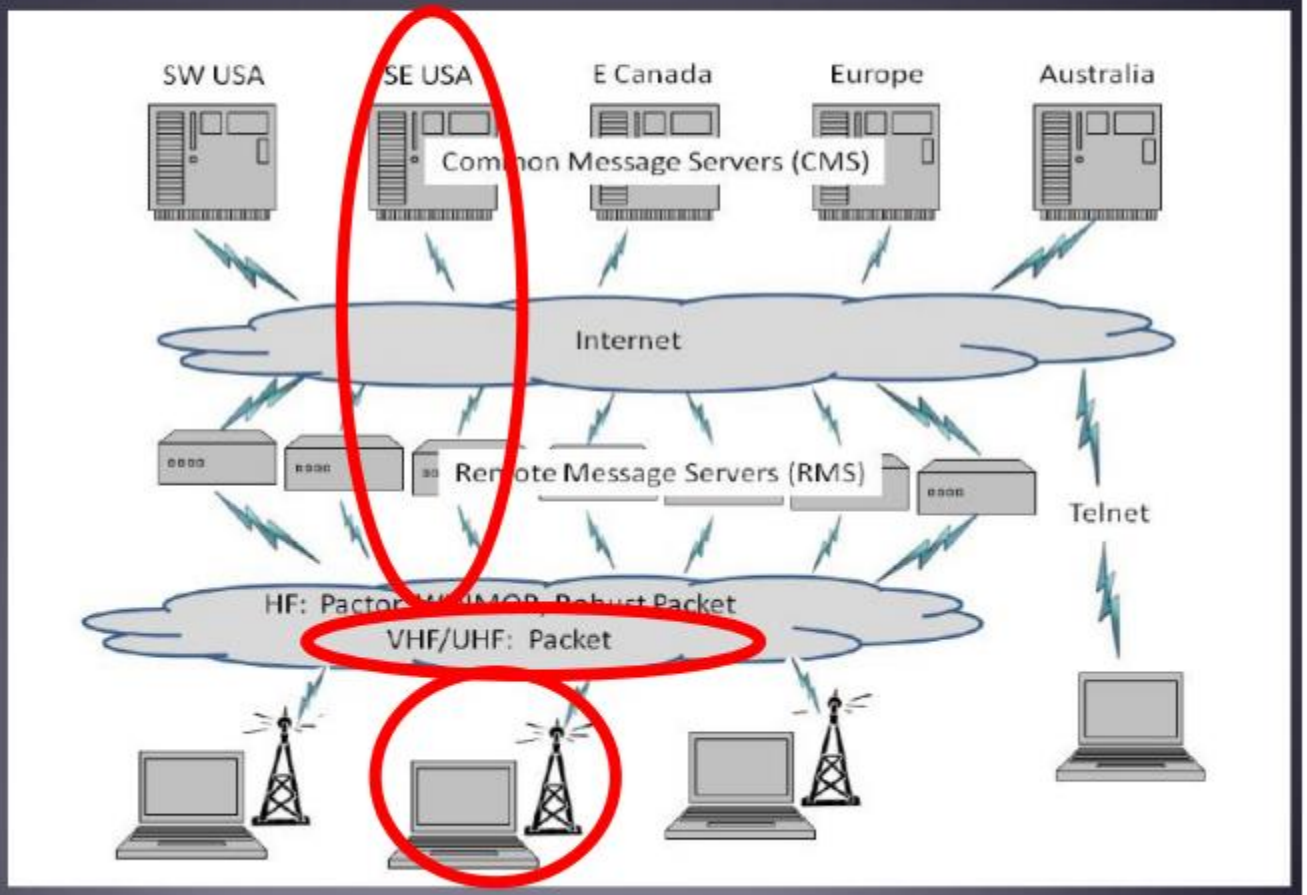
Telnet Session



Now - Try a Radio Email

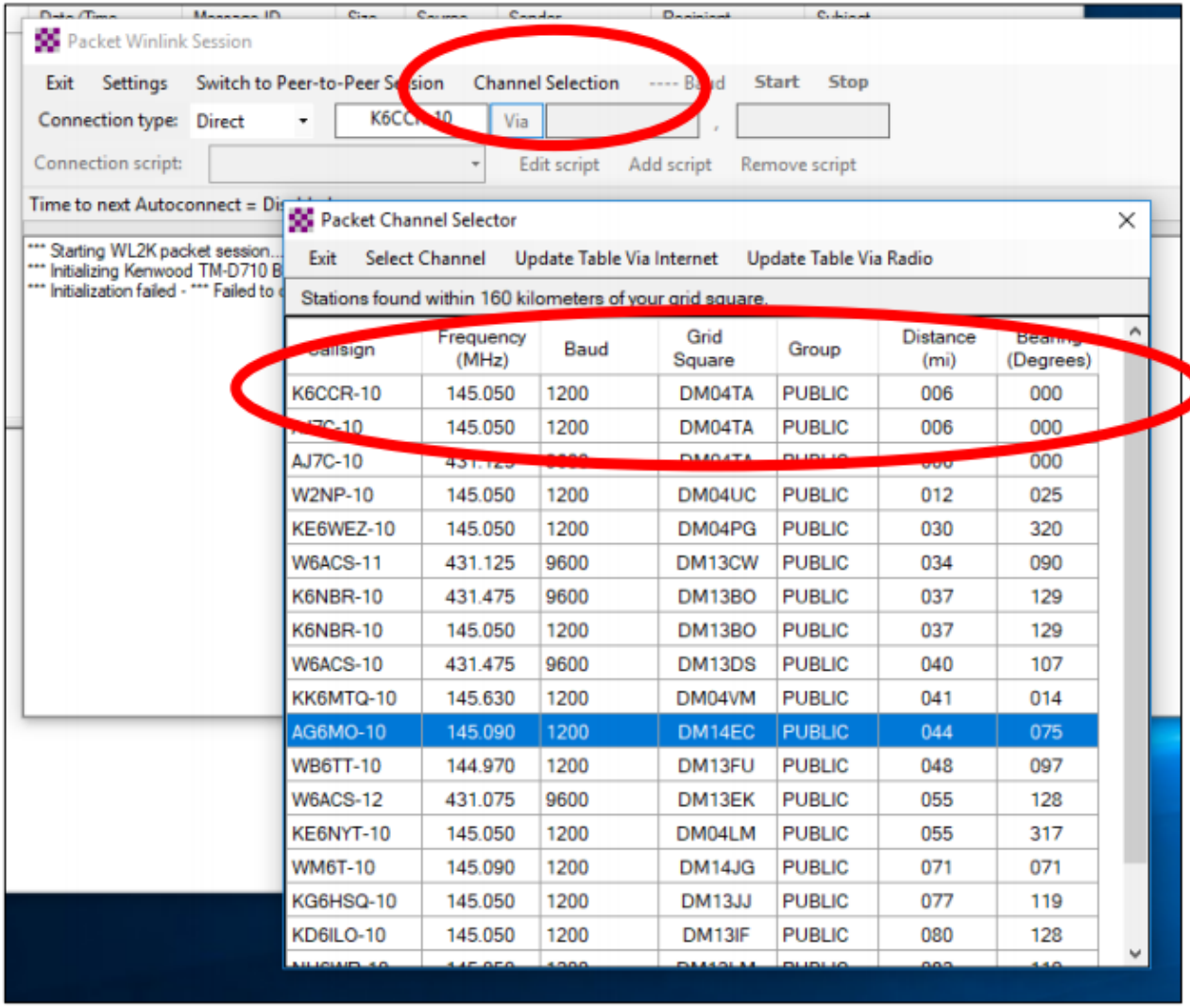
Winlink 2000 Architecture (Conventional Mode)

- CMS
- RMS (gateway)
- Client (you)



Amateur Radio Safety Foundation, Inc.

Find a station

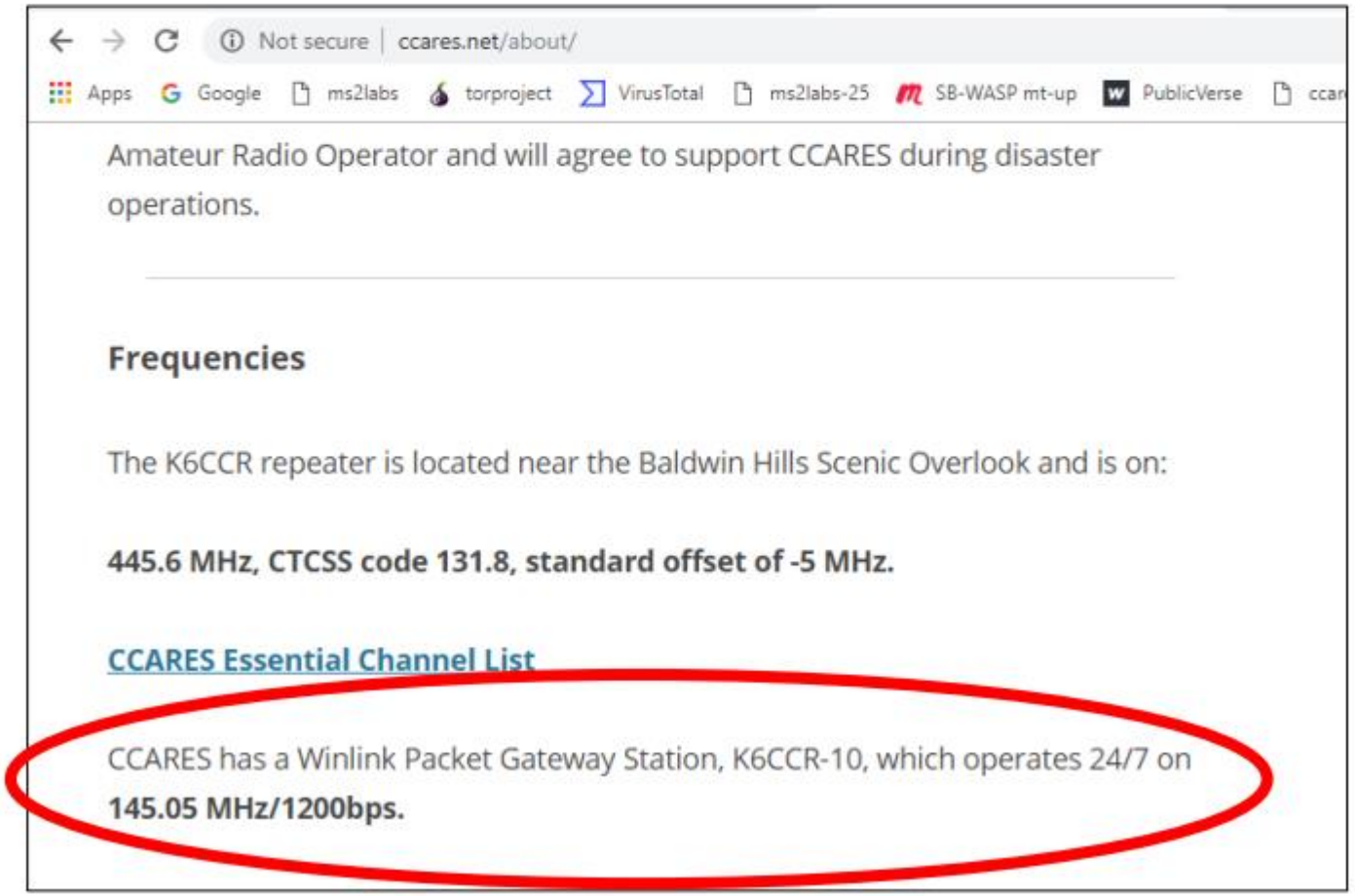


1. Need internet
2. Pick a station,
   - Close is good
   - Notice Data Rate
     -- 2 meter vs 70 cm

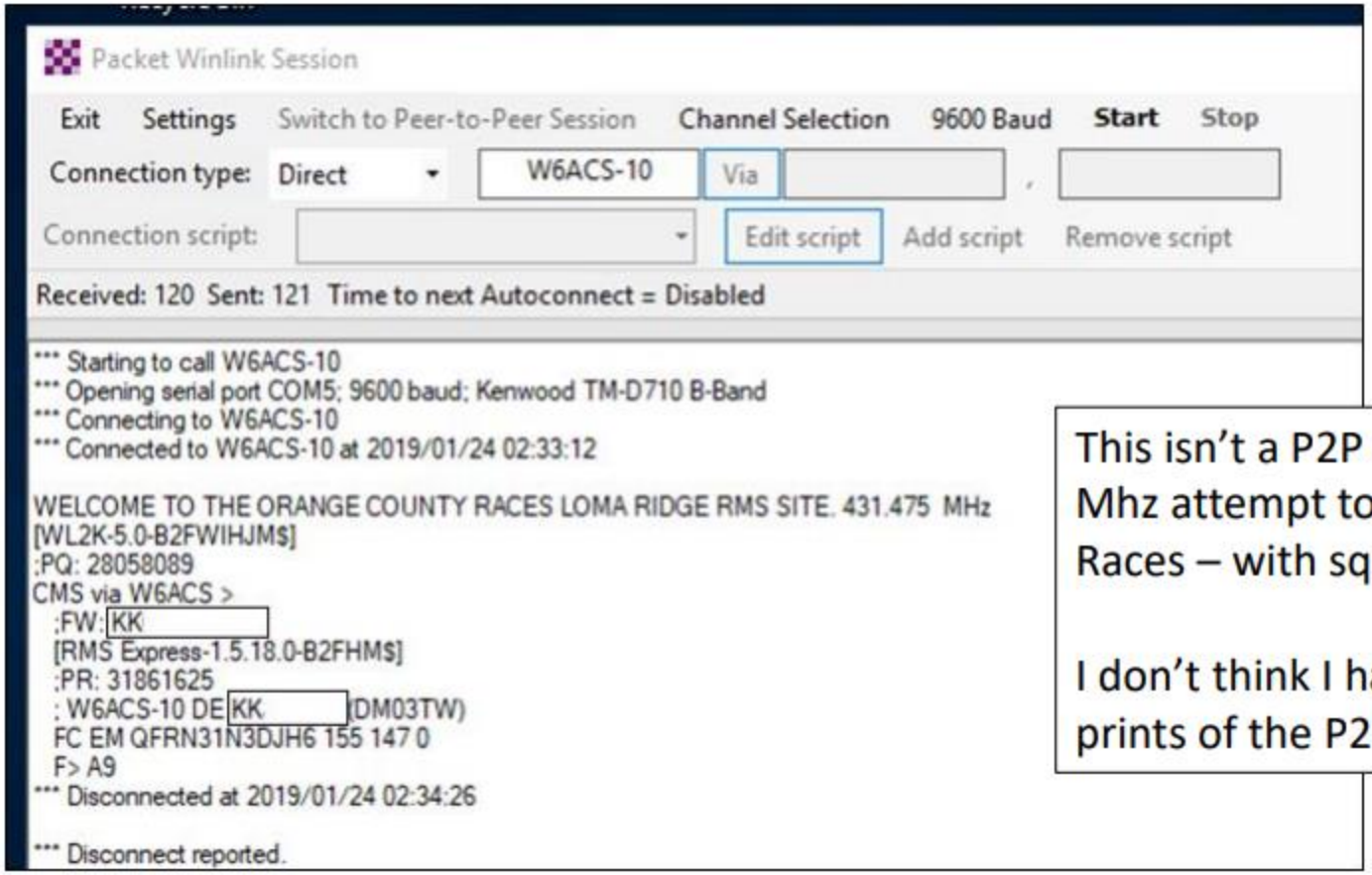
Need to find your station list before field day !!

Out in the field, you won't have internet!!

Find a Station



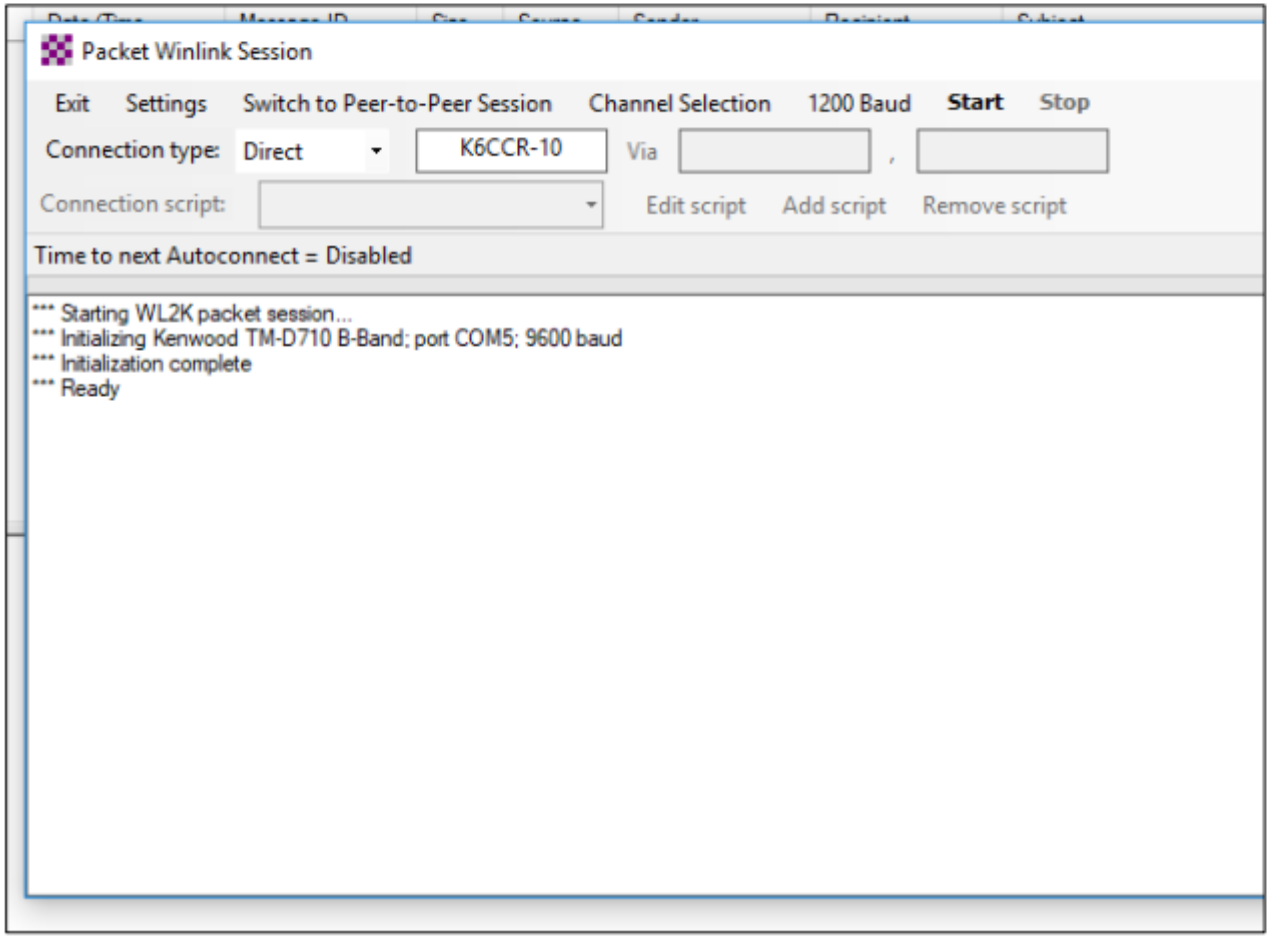
Example of Connection to W6ACS-10, was my best option from Aerospace Bld



This isn't a P2P Session, it's a 431 Mhz attempt to Orange County Races – with squelch set wrong

I don't think I have any screen prints of the P2P sessions (sigh)

Set up – Connect to the radio

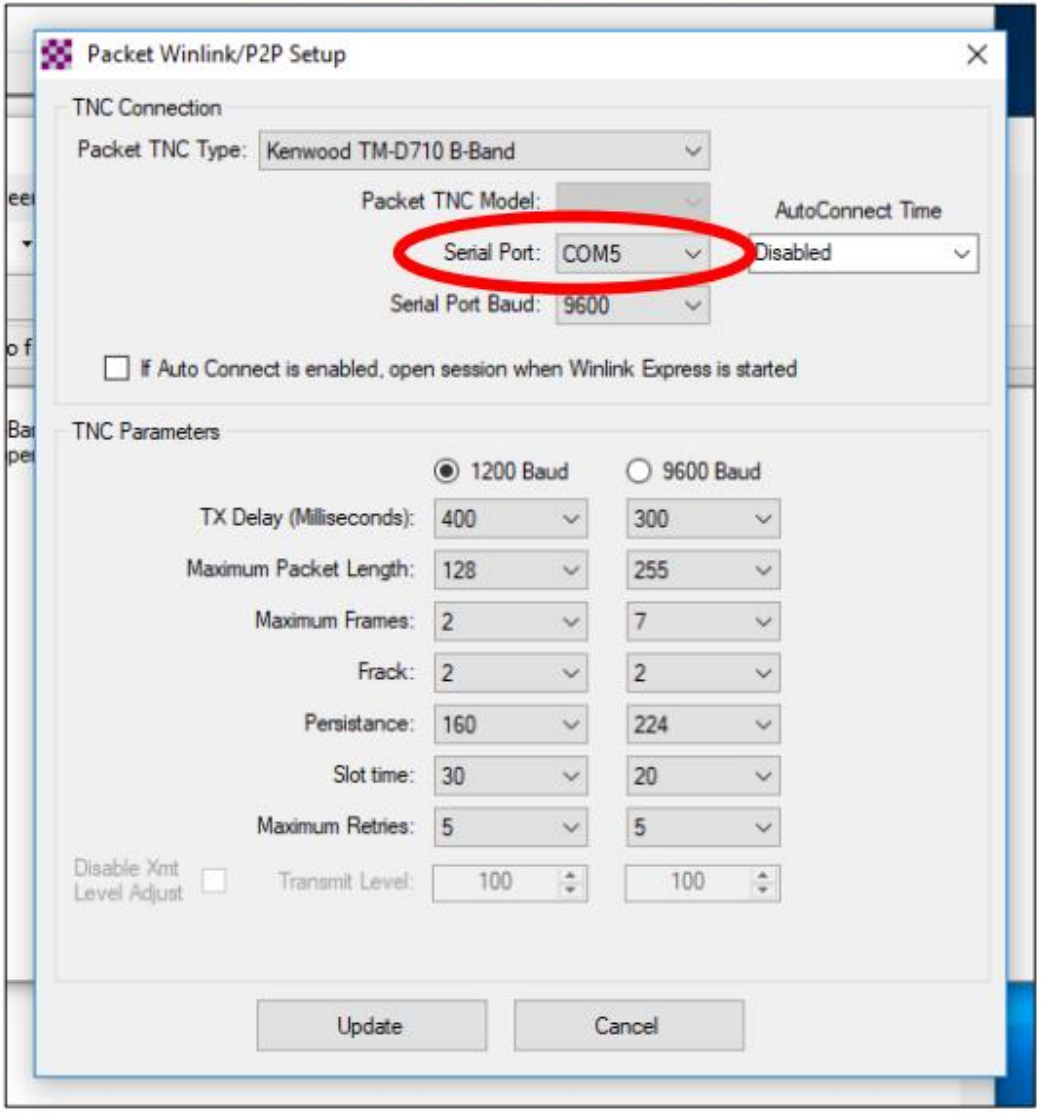


- Radio and Band
- Port
- TNC parameters

- Important, listen to the channel, set your squelch properly.

- Your radio won't transmit if it hears a busy channel !!

Set up



- Radio and Band
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- Important, listen to the channel, set your squelch properly.

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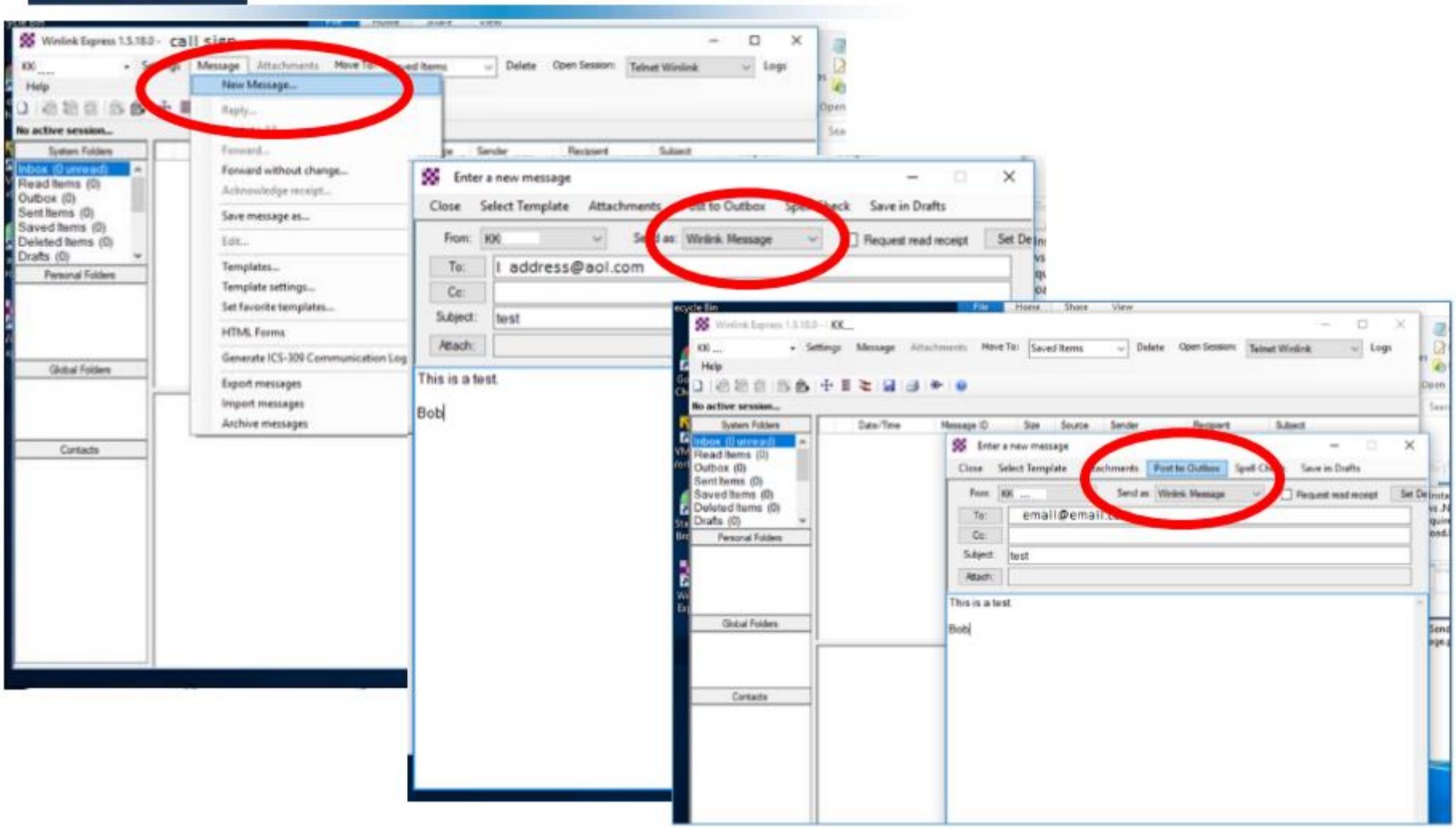
Create an Email, Select Message Type and post to Outbox



A blank ARRL Radiogram Form

http://www.arrl.org/files/file/Public%20Service/RADIOGRAM-2011.pdf

ARRL — the national association for Amateur Radio™

RADIOGRAM

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE

TO

PHONE NUMBER

E-MAIL

THIS RADIO MESSAGE WAS RECEIVED AT

AMATEUR STATION _____ PHONE _____

NAME _____ E-MAIL _____

STREET _____

CITY, STATE, ZIP _____

FROM DATE TIME

REC'D

This message was handled at no charge by a licensed Amateur Radio operator, whose address is shown in the box at right above. No compensation can be accepted by a "ham" operator. A return message may be filed with the "ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225 Main Street, Newington, CT 06111 or **www.arrl.org**.

TO DATE TIME

SENT

The ARRL is the national association for Amateur Radio and the publisher of *QST* magazine. One of its functions is promotion of public service communication among Amateur Radio operators. To that end, the ARRL has organized the National Traffic System for daily nationwide message handling.

1320 2/11

Msg #1

ARRL — the national association for Amateur Radio™

RADIOGRAM

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
1	R		W6HA	15	REDONDO BEACH CA		JUN 22

TO DIANA FEINBERG AI6DF LAX SM
PO BOX 4678
PALOS VERDES PENINSULA CA

PHONE NUMBER

E-MAIL AI6DF ATSIGN ARRL DOT NET

THIS RADIO MESSAGE WAS RECEIVED AT

AMATEUR STATION _____ PHONE _____

NAME _____ E-MAIL _____

STREET _____

CITY, STATE, ZIP _____

W6HA	AT	HOPKINS	WILDERNESS	PARK
HAD	023	MEMBERS	AND	003
ARES	MEMBERS	ATTEND	X	73

MIKE VAHEY N6MDV

FROM _____ DATE _____ TIME _____

REC'D

TO WINLINK K6CCR-10 DATE JUN 23 TIME 1556Z

SENT

This message was handled at no charge by a licensed Amateur Radio operator, whose address is shown in the box at right above. No compensation can be accepted by a "ham" operator. A return message may be filed with the "ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225 Main Street, Newington, CT 06111 or www.arrl.org.

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1320 2/11

Is .Org in 2020

MSG 1, Text File:

ai6df@arrl.org (for FD Jun 2020, her email address is .org, was .net in 2019)

FIELD DAY RADIOGRAM FROM HUGHES AMATEUR RADIO CLUB

1 R W6HA 15 REDONDO BEACH CA JUN 22

DIANA FEINBERG AI6DF LAX SM

PO BOX 4678

PALOS VERDES PENINSULA CA 90274

AI6DF ATSIGN ARRL DOT ORG

BT

W6HA AT HOPKINS WILDERNESS PARK

HAD 000 MEMBERS AND 000

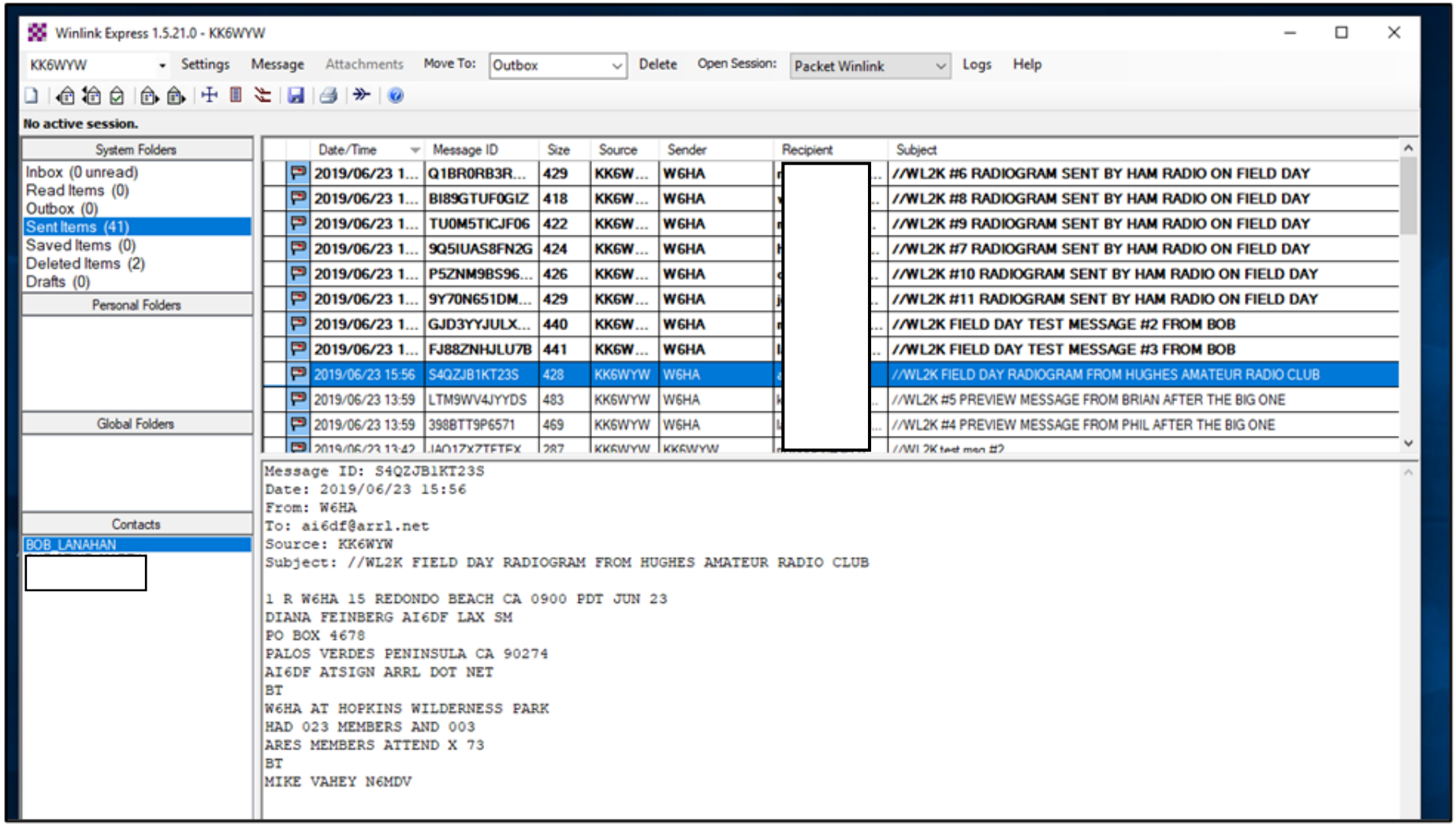
ARES MEMBERS ATTEND X 73

BT

MIKE VAHEY N6MDV

HARC Field Day 2019

Msg #1



Msg #2

ARRL — the national association for Amateur Radio™

RADIOGRAM

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
2	R		W6HA	24	REDONDO BEACH CA		JUN 22

TO MIKE
101 PR
CARY

PHONE NUMBER

E-MAIL

OM

THIS RADIO MESSAGE WAS RECEIVED AT

AMATEUR STATION _____ PHONE _____

NAME _____ E-MAIL _____

STREET _____

CITY, STATE, ZIP _____

I MIGHT CONTACT YOU BY
HAM RADIO MESSAGE AFTER THE
BIG ONE IF COMMERCIAL LANDLINE
AND CELLULAR AND EMAIL INFRASTRUCTURE
ARE DAMAGED OR OVERWHELMED

BOB LANAHAN KK6WYW

FROM DATE TIME

REC'D

This message was handled at no charge by a licensed Amateur Radio operator, whose address is shown in the box at right above. No compensation can be accepted by a "ham" operator. A return message may be filed with the "ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225 Main Street, Newington, CT 06111 or www.arrl.org.

TO SENT WINLINK K6CCR-10 DATE JUN23 TIME 1600Z

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1320 2/11

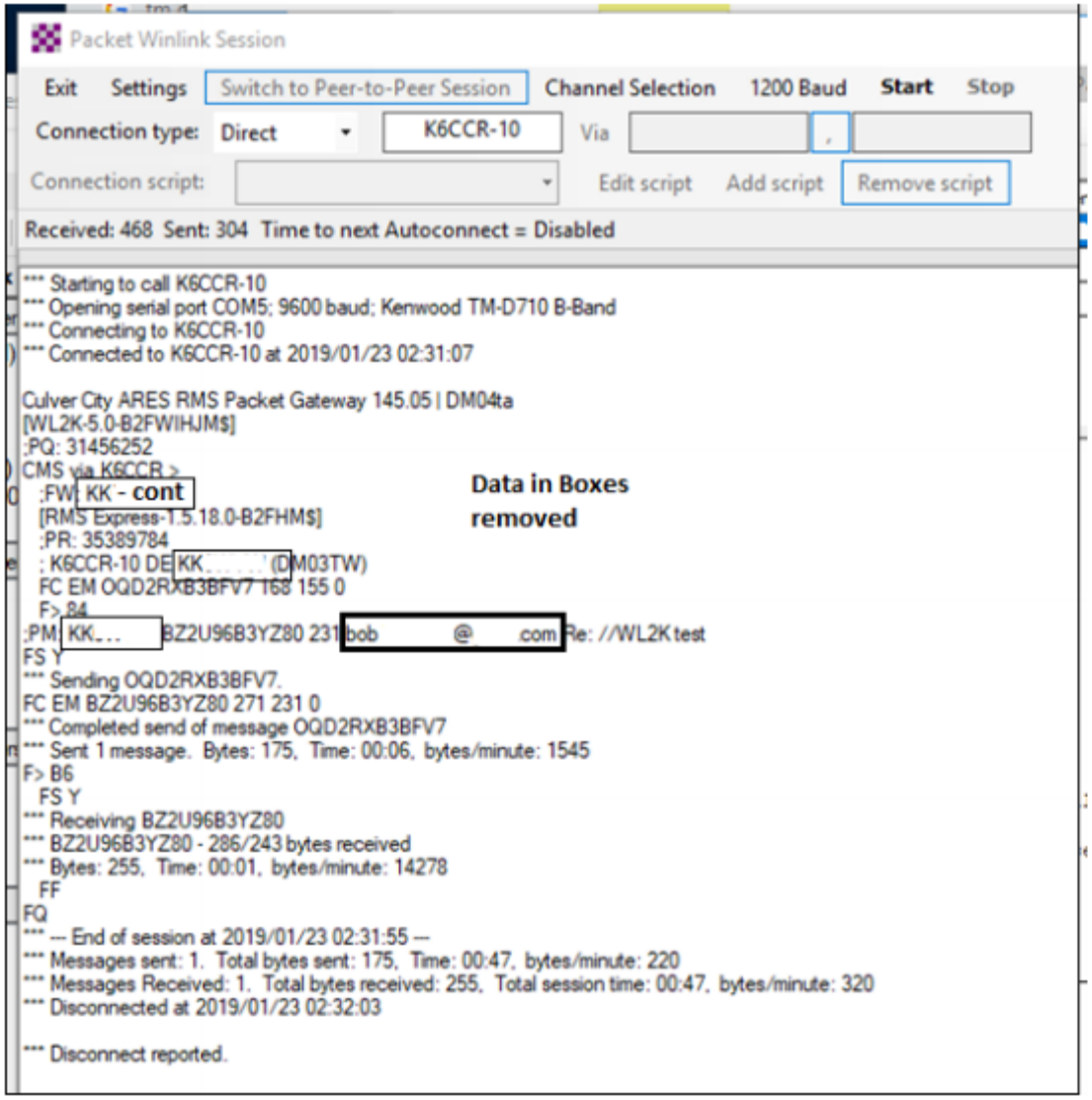
MSG 2, Text File:

[redacted]@gmail.com

PREVIEW MESSAGE FROM BOB AFTER THE BIG ONE

2 R W6HA 24 REDONDO BEACH CA JUN 22
M[redacted]
10[redacted]LANE
C[redacted]13
91[redacted]2
[redacted] ATSIGN GMAIL DOT COM
BT
I MIGHT CONTACT YOU BY
HAM RADIO MESSAGE AFTER THE
BIG ONE IF COMMERCIAL LANDLINE
AND CELLULAR AND EMAIL INFRASTRUCTURE
ARE DAMAGED OR OVERWHELMED
BT
BOB[redacted]YW

A successful connection !!



Hit Start …

Questions?