



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

Winlink is...

...a worldwide radio email service that uses radio channels where the Internet is not possible, and is capable of operating completely without the Internet. Winlink provides its users email with attachments, postal reporting, weather and information bulletins, and is well known for its role in emergency communications. Licensed Winlink operators also use software for radio and government radio frequencies worldwide. The system is built, operated and maintained entirely by licensed amateur radio operators. The system is provided by the Amateur Radio Society of Australia, Inc., a US 501(c)(3) non-profit public benefit entity. Winlink Global Radio Email® is a US registered trademark of the Amateur Radio Society of Australia, Inc.

Gert Kmet, OE3ZK, SK

The Winlink Development Team is sad to report that on the 19th of January 2019 Mr. Gert Kmet, OE3ZK became a silent key. He had been an exceptional amateur radio operator and a serious health companion.

There were other world-renowned radio friends and fellow members of the Winlink team and his team operated the former QIB server in Vienna, Austria, and contributed regularly and frequently to matters large and small in

Fast Info...

- Support Winlink: Register your program
- Lost Registration Key? Log in, it's on your account page.
- Change channel? What is this? This is the...
- My Winlink is not working? Winlink Public Forum
- Become a Winlink Gateway Site

Get Winlink Express

The only client program with everything Winlink offers. Easy to set up, learn and use. Fully supported. Free Download

Winlink Was There...

Lives and properly saved, damage mitigated: Why Winlink volunteers do what they do.

← → ↻ 🏠 <https://www.microsoft.com/en-us/download/details.aspx?id=22>

Microsoft .NET Framework 3.5 Service Pack 1

Important! Selecting a language below will dynamically change the complete page content to that language.

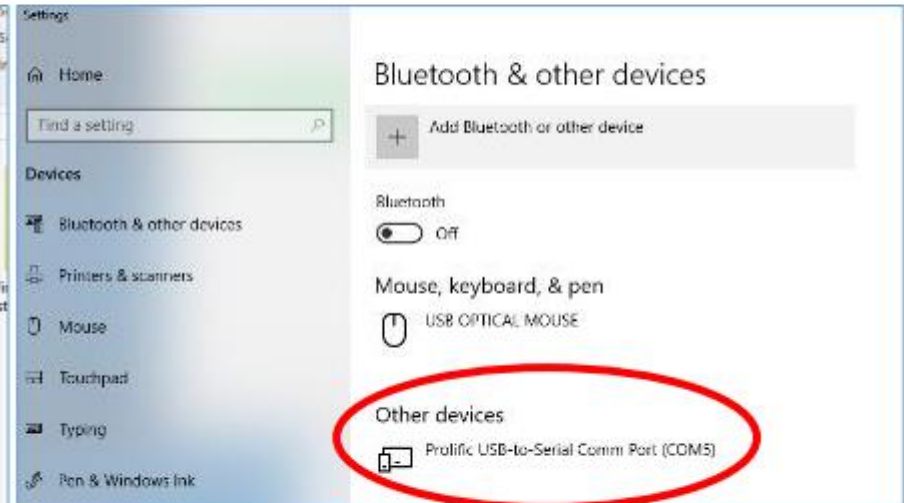
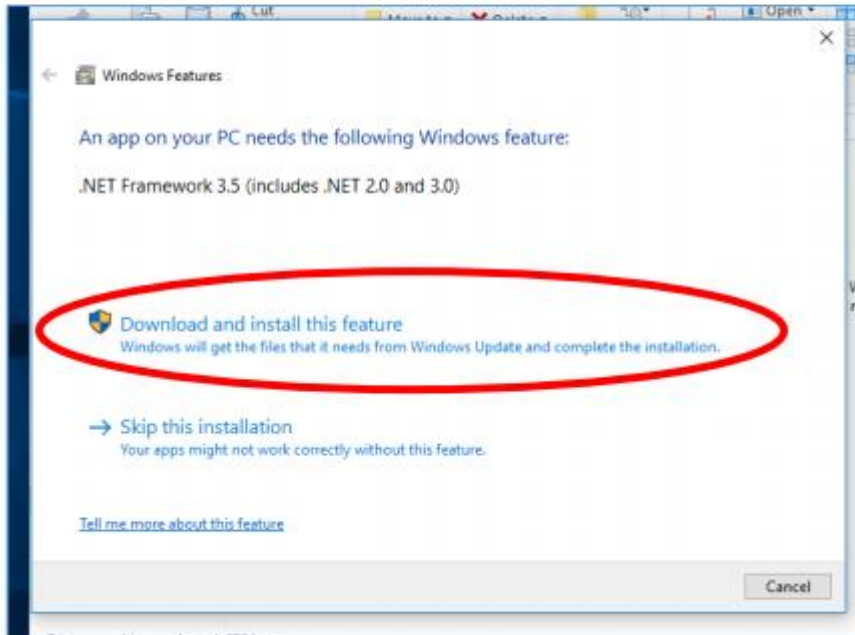
Select Language:

Microsoft .NET Framework 3.5 Service Pack 1 is a full cumulative update that contains many new features building incrementally upon .NET Framework 2.0, 3.0, 3.5, and includes cumulative servicing updates to the .NET Framework 2.0 and .NET Framework 3.0 subcomponents.

- + Details
- + System Requirements
- + Install Instructions
- + Additional Information
- + Related Resources



.Net and Devices





Install / Boot Up Winlink

Winlink Express Properties

Call Signs

Primary Callsign: Password:

Callsign suffix (optional): (used for country code)

Password recovery e-mail:

(Non-Winlink e-mail address which will be used to request password when requested)

Auxiliary Callsigns and Tactical Addresses

My Grid Square:

Winlink Express registration key:

Service Codes

(Use PUBLIC for ham call signs. Separate multiple service codes by spaces.)
If you change service codes, you must update the list of channels.

Contact Information (Optional)

Name:

Street address 1:

Street address 2:

City:

State/Province:

Country:

Postal code:

Web Site URL (optional):

Phone number:

Non-Winlink e-mail:

Additional information (optional):

Recalculate HF path quality if SFI changes more than:

Keep logs for weeks. Keep deleted messages for days.

Display list of pending incoming messages prior to download
 Warn about connections to stations holding messages
 Allow diagnostic information to be sent to the Winlink Development Team
 Automatically install field-test (beta) versions of Winlink Express

- 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.

Winlink Express Registration

Winlink Express is made possible through the Amateur Radio Safety Foundation Inc. Your registration of Winlink Express and support for the ARSF makes the Winlink system possible. Registering Winlink Express also registers your callsign to use the Winmor TNC.

Registration Site URL (click):
<http://www.arsfi.org/express.aspx>

Enter Registration Key

Call Sign: XYZ-123

Registration Key:



Create an Email

The screenshot displays the Winlink Express 1.5.18.0 interface. On the left, a folder pane shows 'System Folders' including 'Inbox (0 unread)', 'Read Items (0)', 'Outbox (0)', 'Sent Items (0)', 'Saved Items (0)', 'Deleted Items (0)', and 'Drafts (0)'. A 'Message' menu is open, with 'New Message...' highlighted by a red circle. To the right, the 'Enter a new message' dialog box is shown. The 'From' field contains 'KKI', the 'To' field contains 'l address@aol.com', and the 'Subject' field contains 'test'. The 'Send as:' dropdown menu is set to 'Winlink Message' and is also circled in red. The message body contains the text 'This is a test' and 'Bob'.



Post Message to Outbox

The screenshot shows the Winlink Express 1.5.18.0 interface. The main window has a menu bar with 'File', 'Home', 'Share', and 'View'. Below the menu bar is a toolbar with icons for 'Help', 'Go', 'Ch', 'Open', and 'Search'. The main area is divided into a left sidebar and a main pane. The sidebar contains 'System Folders' (Inbox (0 unread), Read Items (0), Outbox (0), Sent Items (0), Saved Items (0), Deleted Items (0), Drafts (0)), 'Personal Folders', 'Global Folders', and 'Contacts'. The main pane shows a table with columns: Date/Time, Message ID, Size, Source, Sender, Recipient, and Subject. A dialog box titled 'Enter a new message' is open, with the 'Post to Outbox' button circled in red. The dialog has a menu bar with 'Close', 'Select Template', 'Attachments', 'Post to Outbox', 'Spell Check', and 'Save in Drafts'. Below the menu bar are fields for 'From: KK ...', 'Send as: Winlink Message', 'Request read receipt' (checkbox), and 'Set De...'. The 'To:' field contains 'email@email.com', 'Cc:' is empty, 'Subject:' contains 'test', and 'Attach:' is empty. The message body contains the text 'This is a test.' and 'Bob|'.

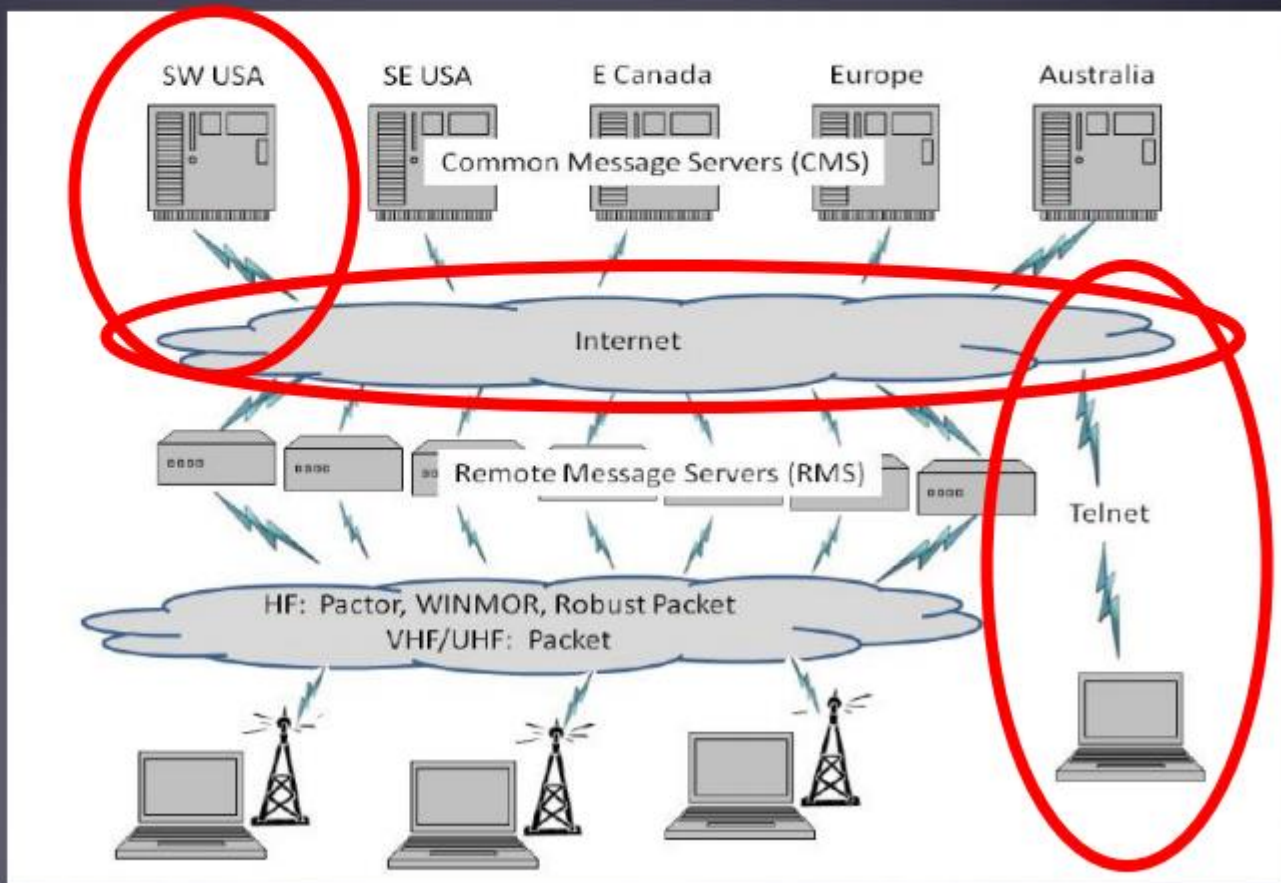


Now - Try a Telnet Email

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

Winlink 2000 Architecture (Conventional Mode)

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





Open a Telnet session

Winlink Express 1.5.18.0 - KK....

File Home Share View

Settings Message Attachments Move To: Saved Items Delete Open Session: Telnet Winlink Logs

Help

No active session...

	Date/Time	Open session	Size	Source	Sender	Recipient	Subject
System Folders							
Inbox (0 unread)							
Read Items (0)							
Outbox (1)							
Sent Items (0)							
Saved Items (0)							
Deleted Items (0)							
Drafts (0)							
Personal Folders							
Global Folders							
Contacts							

Make sure you have an internet connected. Test to see that your email works.



Telnet Session

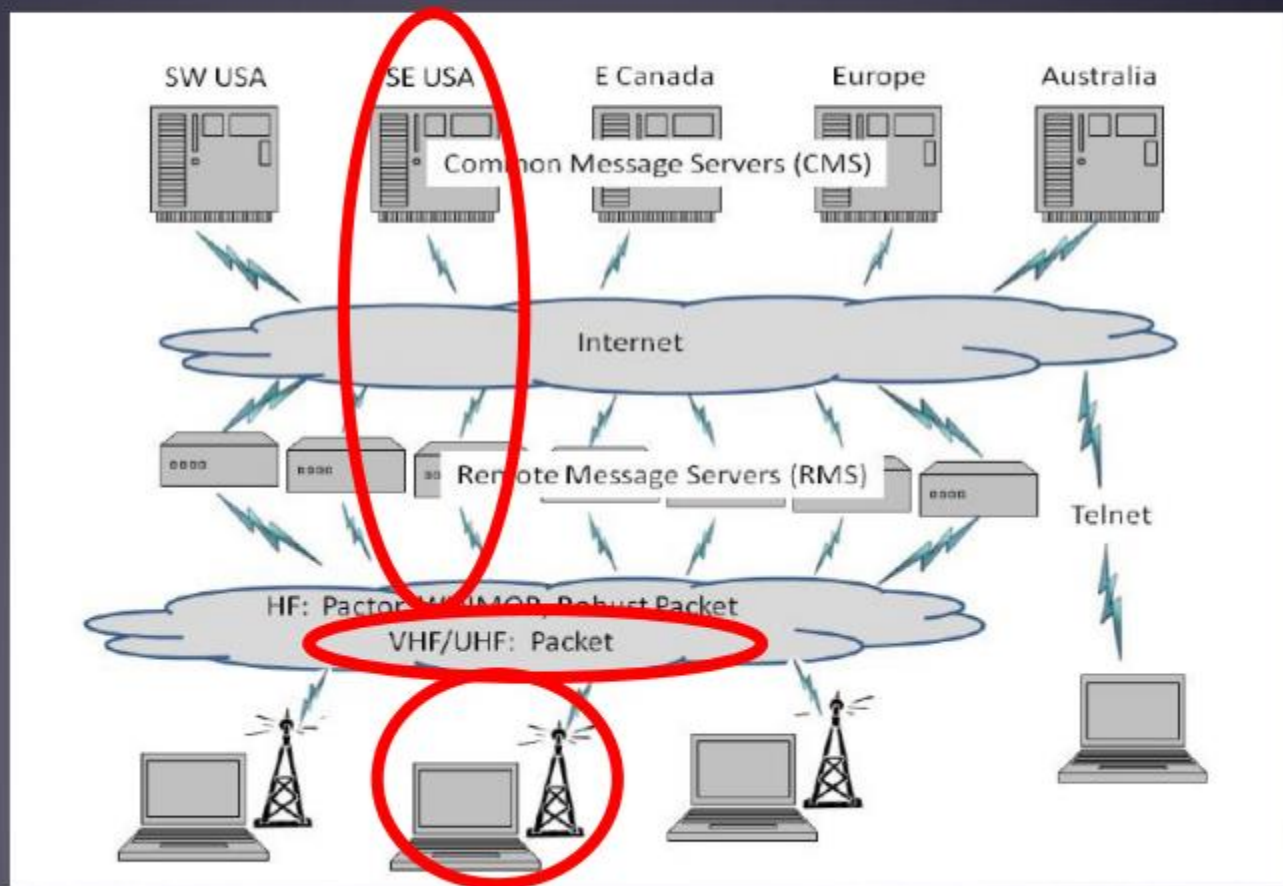
```
Telnet Winlink Session
Exit  Settings  Start  Stop  Time to next Autoconnect = Disabled
*** Connecting to a CMS...
*** Connected to AWS at 2018/10/05 18:51:10
[WL2K-5.0-B2FWIHJMS]
:PQ: 20902194
CMS>
:FW: KK6 ...
[RMS Express-1.5.12.0-B2FHMS]
:PR: 20456386
:WL2K DE KK--- (DM03TV)
FC EM 3V0D40HSADEC 192 173 0
F> C8
FS Y
*** Sending 3V0D40HSADEC.
FF
*** Completed send of message 3V0D40HSADEC
*** Sent 1 message. Bytes: 206, Time: 00:00, bytes/minute: 46532
FQ
```



Now - Try a Radio Email

Winlink 2000 Architecture (Conventional Mode)

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





Find a station

Packet Winlink Session

Exit Settings Switch to Peer-to-Peer Session Channel Selection Band Start Stop

Connection type: Direct K6CCR-10 Via

Connection script: Edit script Add script Remove script

Time to next Autoconnect = Disconnected

Packet Channel Selector

Exit Select Channel Update Table Via Internet Update Table Via Radio

Stations found within 160 kilometers of your grid square.

Call sign	Frequency (MHz)	Baud	Grid Square	Group	Distance (mi)	Bearing (Degrees)
K6CCR-10	145.050	1200	DM04TA	PUBLIC	006	000
K6CCR-10	145.050	1200	DM04TA	PUBLIC	006	000
AJ7C-10	431.125	9600	DM04TA	PUBLIC	006	000
W2NP-10	145.050	1200	DM04UC	PUBLIC	012	025
KE6WEZ-10	145.050	1200	DM04PG	PUBLIC	030	320
W6ACS-11	431.125	9600	DM13CW	PUBLIC	034	090
K6NBR-10	431.475	9600	DM13BO	PUBLIC	037	129
K6NBR-10	145.050	1200	DM13BO	PUBLIC	037	129
W6ACS-10	431.475	9600	DM13DS	PUBLIC	040	107
KK6MTQ-10	145.630	1200	DM04VM	PUBLIC	041	014
AG6MO-10	145.090	1200	DM14EC	PUBLIC	044	075
WB6TT-10	144.970	1200	DM13FU	PUBLIC	048	097
W6ACS-12	431.075	9600	DM13EK	PUBLIC	055	128
KE6NYT-10	145.050	1200	DM04LM	PUBLIC	055	317
WM6T-10	145.090	1200	DM14JG	PUBLIC	071	071
KG6HSQ-10	145.050	1200	DM13JJ	PUBLIC	077	119
KD6ILO-10	145.050	1200	DM13IF	PUBLIC	080	128
N6SWP-10	145.050	1200	DM13LM	PUBLIC	083	119

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

← → ↻ ⓘ Not secure | ccares.net/about/

Apps Google ms2labs torproject VirusTotal ms2labs-25 SB-WASP mt-up PublicVerse ccares

Amateur Radio Operator and will agree to support CCARES during disaster operations.

Frequencies

The K6CCR repeater is located near the Baldwin Hills Scenic Overlook and is on:

445.6 MHz, CTCSS code 131.8, standard offset of -5 MHz.

[CCARES Essential Channel List](#)

CCARES has a Winlink Packet Gateway Station, K6CCR-10, which operates 24/7 on **145.05 MHz/1200bps.**

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

The screenshot shows the Packet Winlink Session interface. At the top, there are menu options: Exit, Settings, Switch to Peer-to-Peer Session, Channel Selection, 9600 Baud, Start, and Stop. The Connection type is set to Direct, and the channel is W6ACS-10. The connection script is empty, and there are buttons for Edit script, Add script, and Remove script. Below the interface, the received and sent data are shown as 120 and 121 respectively, and the time to next autoconnect is disabled. The log shows the following text:

```
*** Starting to call W6ACS-10
*** Opening serial port COM5; 9600 baud; Kenwood TM-D710 B-Band
*** Connecting to W6ACS-10
*** Connected to W6ACS-10 at 2019/01/24 02:33:12

WELCOME TO THE ORANGE COUNTY RACES LOMA RIDGE RMS SITE. 431.475 MHz
[WL2K-5.0-B2FWIHJMS]
:PQ: 28058089
CMS via W6ACS >
:FW:[KK]
[RMS Express-1.5.18.0-B2FHMS]
:PR: 31861625
: W6ACS-10 DE [KK] (DM03TW)
FC EM QFRN31N3DJH6 155 147 0
F> A9
*** Disconnected at 2019/01/24 02:34:26

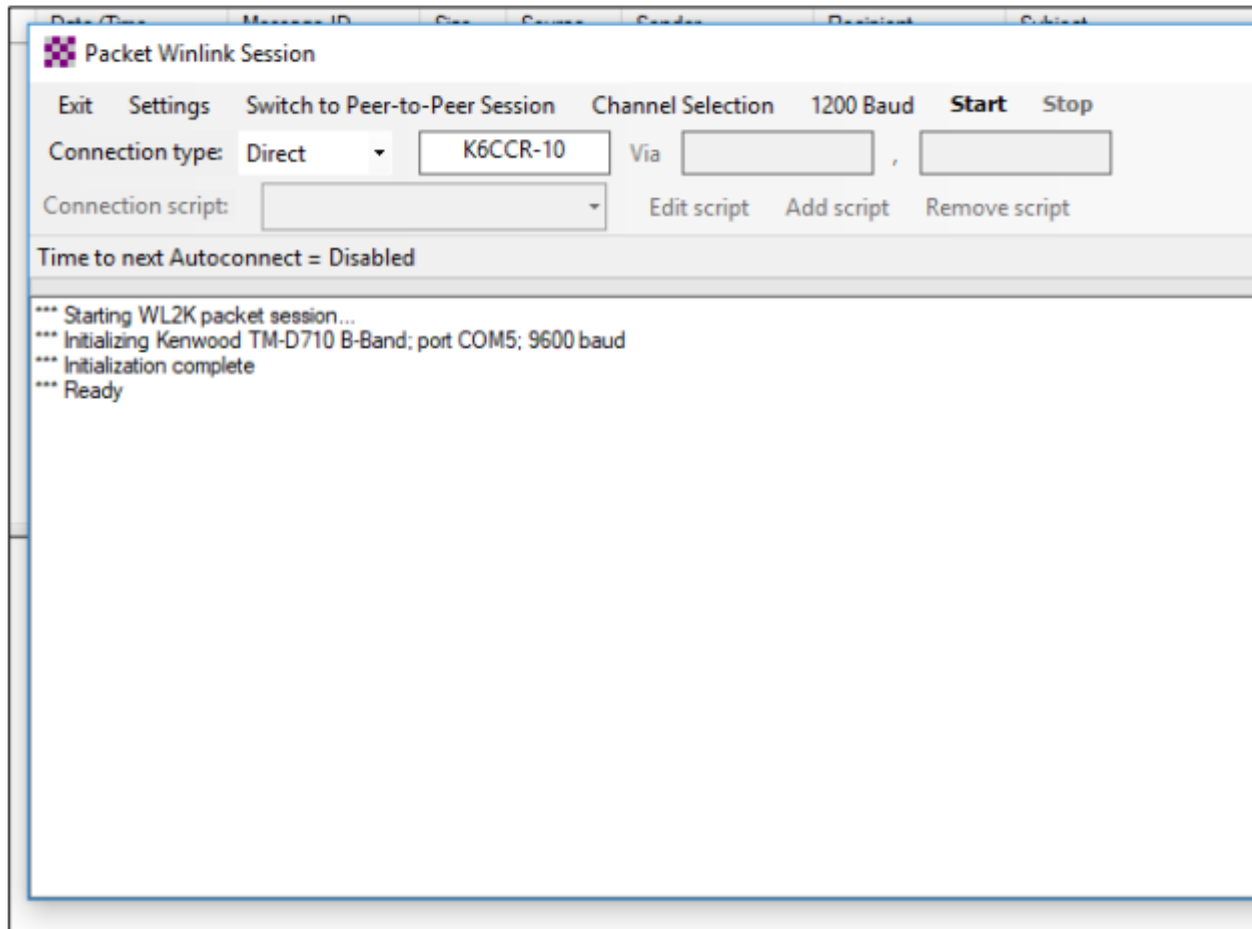
*** Disconnect reported.
```

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

Packet Winlink/P2P Setup

TNC Connection

Packet TNC Type: Kenwood TM-D710 B-Band

Packet TNC Model: [] AutoConnect Time: Disabled

Serial Port: COM5

Serial Port Baud: 9600

If Auto Connect is enabled, open session when Winlink Express is started

TNC Parameters

1200 Baud 9600 Baud

TX Delay (Milliseconds):	400	300
Maximum Packet Length:	128	255
Maximum Frames:	2	7
Frack:	2	2
Persistence:	160	224
Slot time:	30	20
Maximum Retries:	5	5
Transmit Level:	100	100

Disable Xmt Level Adjust

Update Cancel

- 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 an Email, Select Message Type and post to Outbox

The image illustrates the steps to create an email in Winlink Express 1.5.15.0:

- Step 1:** Open the 'Message' menu and select 'New Message...'.
- Step 2:** In the 'Enter a new message' dialog box, select 'Send as: Winlink Message'.
- Step 3:** In the 'Enter a new message' dialog box, select 'Post to Outbox' in the 'Attachments' section.

The email content shown in the screenshots is:

This is a test
Bob

A blank ARRL Radiogram Form

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

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
			ARRL — the national association for Amateur Radio™				
RADIOGRAM							
TO PHONE NUMBER E-MAIL			THIS RADIO MESSAGE WAS RECEIVED AT AMATEUR STATION _____ PHONE _____ NAME _____ E-MAIL _____ STREET _____ CITY, STATE, ZIP _____				
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
REC'D			SENT				
FROM _____ DATE _____ TIME _____			TO _____ DATE _____ TIME _____				
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 .			The ARRL is the national association for Amateur Radio and the publisher of <i>QST</i> 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				



ARRL — the national association for Amateur Radio™



RADIOGRAM

NUMBER 1	PRECEDENCE R	HX	STATION OF ORIGIN W6HA	CHECK 15	PLACE OF ORIGIN REDDONDO BEACH CA	TIME FILED	DATE JUN 22
TO DIANA FEINBERG AI6DF LAX SM PO BOX 4678 PALOS VERDES PENINSULA CA				THIS RADIO MESSAGE WAS RECEIVED AT			
PHONE NUMBER				AMATEUR STATION _____ PHONE _____			
E-MAIL AI6DF AT SIGN ARRL DOT NET				NAME _____ E-MAIL _____			
W6HA AT HOPKINS WILDERNESS PARK				CITY, STATE, ZIP _____			
HAD 023 MEMBERS AND 003							
ARES MEMBERS ATTEND X 73							
MIKE VAHEY N6MDV							

FROM	DATE	TIME	TO	DATE	TIME
REC'D			SENT WINLINK K6CCR-10	JUN 23	1556Z

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

Winlink Express 1.5.21.0 - KK6WYW

KK6WYW Settings Message Attachments Move To: Outbox Delete Open Session: Packet Winlink Logs Help

No active session.

System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0 unread)	2019/06/23 1...	Q1BR0RB3R...	429	KK6W...	W6HA		//WL2K #6 RADIOGRAM SENT BY HAM RADIO ON FIELD DAY
Read Items (0)	2019/06/23 1...	BI89GTUF0GIZ	418	KK6W...	W6HA		//WL2K #8 RADIOGRAM SENT BY HAM RADIO ON FIELD DAY
Outbox (0)	2019/06/23 1...	TU0M5TICJF06	422	KK6W...	W6HA		//WL2K #9 RADIOGRAM SENT BY HAM RADIO ON FIELD DAY
Sent Items (41)	2019/06/23 1...	9Q5IUAS8FN2G	424	KK6W...	W6HA		//WL2K #7 RADIOGRAM SENT BY HAM RADIO ON FIELD DAY
Saved Items (0)	2019/06/23 1...	P5ZNM9BS96...	426	KK6W...	W6HA		//WL2K #10 RADIOGRAM SENT BY HAM RADIO ON FIELD DAY
Deleted Items (2)	2019/06/23 1...	9Y70N651DM...	429	KK6W...	W6HA		//WL2K #11 RADIOGRAM SENT BY HAM RADIO ON FIELD DAY
Drafts (0)	2019/06/23 1...	GJD3YYJULX...	440	KK6W...	W6HA		//WL2K FIELD DAY TEST MESSAGE #2 FROM BOB
Personal Folders	2019/06/23 1...	FJ88ZNHJLU7B	441	KK6W...	W6HA		//WL2K FIELD DAY TEST MESSAGE #3 FROM BOB
Global Folders	2019/06/23 15:56	S4QZJB1KT23S	428	KK6WYW	W6HA		//WL2K FIELD DAY RADIOGRAM FROM HUGHES AMATEUR RADIO CLUB
Contacts	2019/06/23 13:59	LTM9WV4JYYDS	483	KK6WYW	W6HA		//WL2K #5 PREVIEW MESSAGE FROM BRIAN AFTER THE BIG ONE
BOB LANAHAN	2019/06/23 13:59	398BTT9P6571	469	KK6WYW	W6HA		//WL2K #4 PREVIEW MESSAGE FROM PHIL AFTER THE BIG ONE
	2019/06/23 13:47	JIA017X7TFEX	287	KK6WYW	KK6WYW		//WL2K test msg #2

Message ID: S4QZJB1KT23S
 Date: 2019/06/23 15:56
 From: W6HA
 To: ai6df@arrl.net
 Source: KK6WYW
 Subject: //WL2K FIELD DAY RADIOGRAM FROM HUGHES AMATEUR RADIO CLUB

1 R W6HA 15 REDONDO BEACH CA 0900 PDT JUN 23
 DIANA FEINBERG AI6DF LAX SM
 PO BOX 4678
 PALOS VERDES PENINSULA CA 90274
 AI6DF ATSIGN ARRL DOT NET
 BT
 W6HA AT HOPKINS WILDERNESS PARK
 HAD 023 MEMBERS AND 003
 ARES MEMBERS ATTEND X 73
 BT
 MIKE VAHEY N6MDV



ARRL — the national association for Amateur Radio™



RADIOGRAM

NUMBER 2	PRECEDENCE R	HX	STATION OF ORIGIN W6HA	CHECK 24	PLACE OF ORIGIN REDONDO BEACH CA	TIME FILED	DATE JUN 22
TO MIKE 101 PR CARY			THIS RADIO MESSAGE WAS RECEIVED AT				
PHONE NUMBER			AMATEUR STATION _____ PHONE _____				
E-MAIL			NAME _____ E-MAIL _____				
			STREET _____				
			CITY, STATE, ZIP _____				
I		MIGHT		CONTACT		YOU	
HAM		RADIO		MESSAGE		AFTER	
BIG		ONE		IF		COMMERCIAL	
AND		CELLULAR		AND		EMAIL	
ARE		DAMAGED		OR		OVERWHELMED	
BOB LANAHAN		KK6WYW					
FROM	DATE	TIME	TO	DATE	TIME		
REC'D			SENT WINLINK K6CCR-10	JUN 23	1600Z		

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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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

9 [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 ...

```
Packet Winlink Session
Exit Settings Switch to Peer-to-Peer Session Channel Selection 1200 Baud Start Stop
Connection type: Direct K6CCR-10 Via
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
*** Connected to K6CCR-10 at 2019/01/23 02:31:07

Culver City ARES RMS Packet Gateway 145.05 | DM04a
[WL2K-5.0-B2FWIHJM$]
:PQ: 31456252
CMS via K6CCR >
:FW| KK - cont Data in Boxes
[RMS Express-1.5.18.0-B2FHM$] removed
:PR: 35389784
: K6CCR-10 DE|KK... (DM03TW)
FC EM OQD2RXB3BFV7 168 155 0
F> B4
:PM| KK... BZ2U96B3YZ80 231 bob @ com Re: //WL2K test
FS Y
*** Sending OQD2RXB3BFV7.
FC EM BZ2U96B3YZ80 271 231 0
*** Completed send of message OQD2RXB3BFV7
*** Sent 1 message. Bytes: 175, Time: 00:06, bytes/minute: 1545
F> B6
FS Y
*** Receiving BZ2U96B3YZ80
*** BZ2U96B3YZ80 - 286/243 bytes received
*** Bytes: 255, Time: 00:01, bytes/minute: 14278
FF
FQ
*** -- 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

*** Disconnect reported.
```



Questions?

