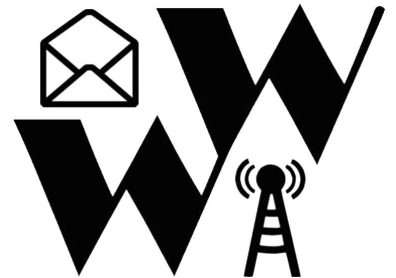


# Winlink and the Winlink Wednesday Net

Presented to PARC  
February 20, 2024

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Primary Net Control Winlink Wednesday  
<https://winlinkwednesday.net>



"Winlink" is **radio mail**,

available over the Internet,

through a variety of modes on VHF/UHF and HF,

and radio-only through the hybrid network.

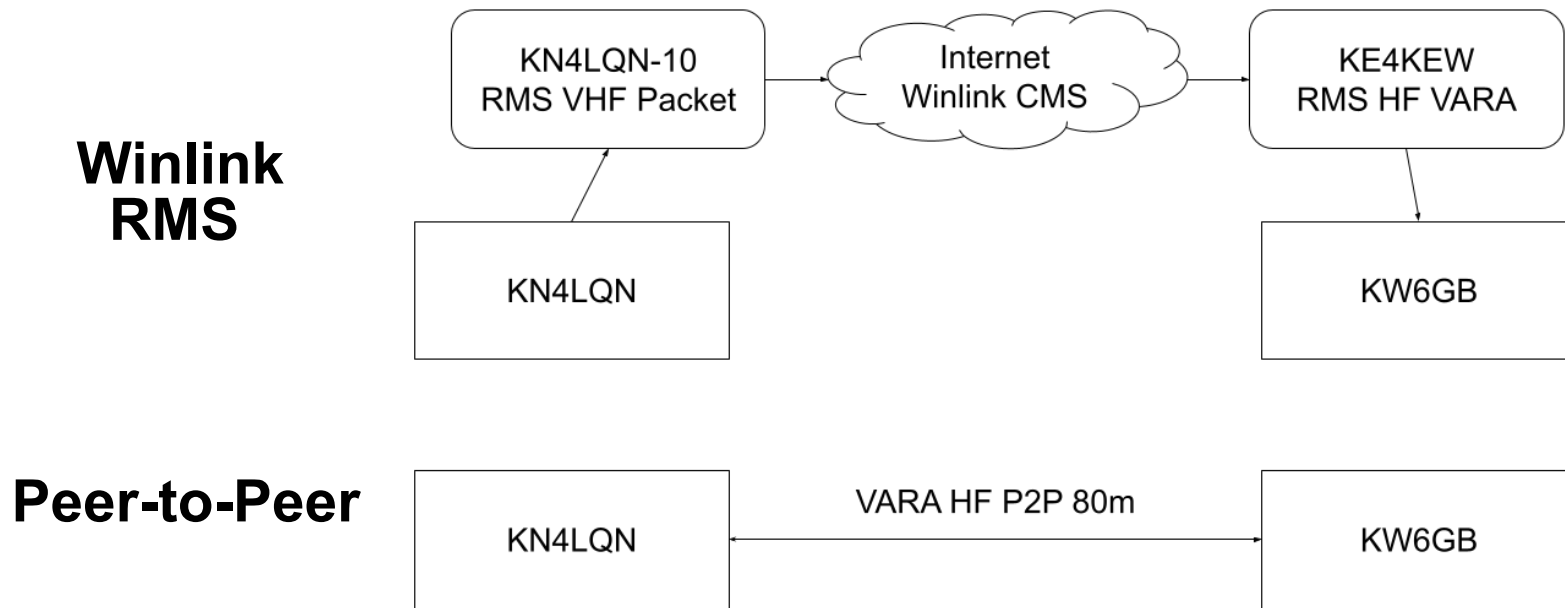


The main session modes:

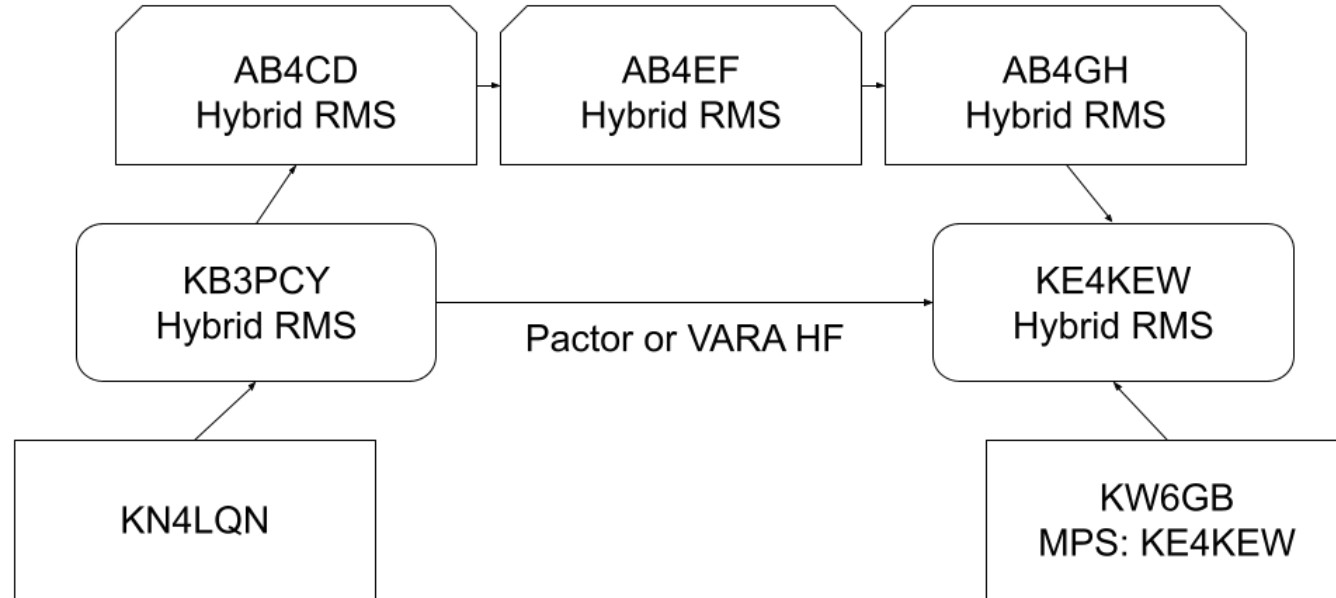
- **Telnet**
- On VHF/UHF:
  - **Packet**
  - **VARA FM**
- On HF:
  - **ARDOP**
  - **VARA HF**
  - **Pactor**



Winlink operates in two major fashions:



## Winlink without Internet / central servers



The main website: <https://winlink.org>



The screenshot shows a web browser window with the URL <https://winlink.org>. The page features the Winlink logo, which includes a globe and the text "WINLINK Global Radio Email®". Below the logo is a navigation menu with links for My Account, Tools, News, Positions, User Programs, Book of Knowledge, Download, and Support. The main content area is divided into three sections: "Winlink Global Radio Email®...", "Introducing the IONOS Simulator", and "Fast Info...".

**Winlink Global Radio Email®...**

*...is a network of amateur radio and authorized government-licensed stations that provide worldwide radio email using radio pathways where the internet is not present. The system is built, operated and administered entirely by licensed "Ham" volunteers. It supports email with attachments, position reporting, weather and*

**Introducing the IONOS Simulator**



The IONOS HF/VHF Channel Simulator is a silver metal box with a digital display and two knobs. The display shows "WIN1 SIN= 20 dB", "LU1=3 mvp-p", and "CF= 5.09". The text "IONOS HF/VHF Channel Simulator" and "Amateur Radio Safety Foundation Inc." is printed at the top. The Winlink logo is on the right side. At the bottom, it says "Rick Moeching, KN6KD" and "Tom LaFleur, KA6QQA".

**Fast Info...**

- Support Winlink: [Register](#) your program
- **Lost Registration Key?** [Log in](#). It's on your account page.
- Callsign change? [What to do. How to do it.](#)
- Which bands are open? [Propagation Map](#)
- [HTML Forms and Forms not in the Express Standard Library](#)



## Main client:

- Winlink Express
  - "Win" = Windows OS
  - Linux/BSD/OSX via WINE\*

## Alternate clients:

- Older: Airmail, Sailmail, Paclink
- BPQ application suite (Windows / Linux)
- Pat (Windows / Linux / Mac)
- WoAD (Android)
- RadioMail (iOS)
- Outpost PMM (Windows / WINE)
- APRSLink



# Winlink Express client

Winlink Express 1.7.12.3 - KN4LQN

KN4LQN Settings Message Attachments Move To: A RMS Delete Open Session: Packet P2P Logs Help

In Packet P2P session.

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2024/02/20 1...	UMU416F6BE...	312	W4IIA	W4IIA	KN4LQN (P2P)	Chesterfield County ARES Winlink M
	2024/02/19 23:13	1XTPCTQI4QOB	177	N4VEM	N4VEM	KN4LQN	Testing
	2024/02/19 19:52	5Y3B6E8KOUND	3243	KB4KY	KB4KY	N2GWK...	NET REPORT FOR THE AMLEGNELCO V
	2024/02/19 17:23	I54QMPSHZQFM	5779	KB4KY	KB4KY	N2GWK...	Routine/ AMLEGNELCO Net Session 143
	2024/02/19 03:45	IRQZ4BF6Y0U8	412	N5HZR	HAMWORD	KN4LQN	Re: <No subject>
	2024/02/19 02:00	AG6SM156SIQ6	571	N5HZR	HAMWORD	KN4LQN	<No subject>
	2024/02/19 00:02	43I907702IAX	400	N5HZR	HAMWORD	KN4LQN	New Hamword for the Week

System Folders

- Inbox (1 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (6172)
- Saved Items (29)
- Deleted Items (46)
- Drafts (0)

Personal Folders

- ww-387-rej (9)
- ww-387 (797)
- ww-388-rej (5)
- ww-388 (819)
- ww-389-rej (2)

Global Folders

Contacts

Message ID: 1XTPCTQI4QOB  
 Date: 2024/02/19 23:13  
 From: N4VEM  
 To: KN4LQN  
 Source: N4VEM  
 Downloaded-from: Telnet:cms.winlink.org  
 Subject: Testing

Hey, I'm just playing before the ODEN/A net.





## Download from winlink.org and install



# Register new account

**Winlink Express Properties**

**Call Signs**

My Callsign:  My Password:   
(Case sensitive)

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

**Password recovery e-mail:**  elkinsd@gmail.com  
(Non-Winlink e-mail address where lost password will be sent when requested)

**Auxiliary Callsigns and Tactical Addresses**

ARCATLANTIC   
 CHESTRFLDEOC   
 ETO-03   
 ETO-DX

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

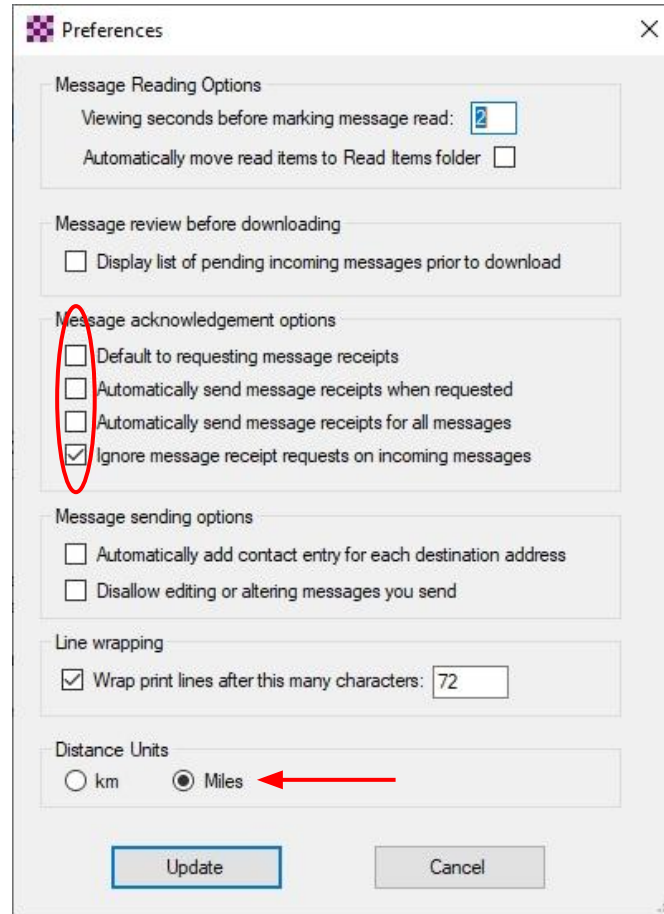
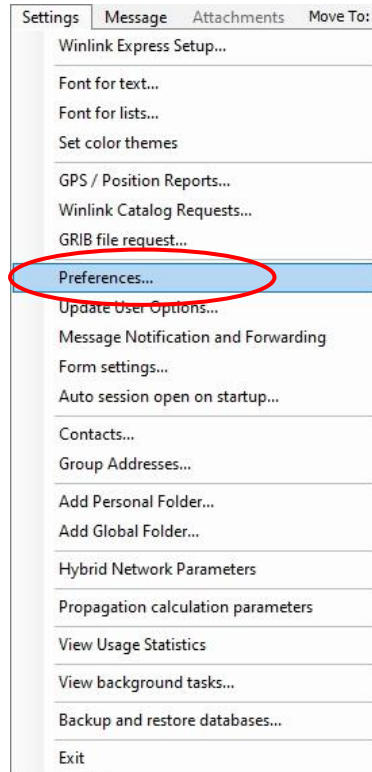
Warn about connections to stations holding messages

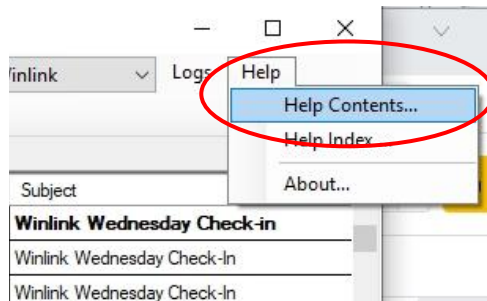
Allow diagnostic information to be sent to the Winlink Development Team

Automatically install field-test (beta) versions of Winlink Express

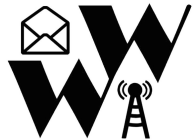


# User preferences

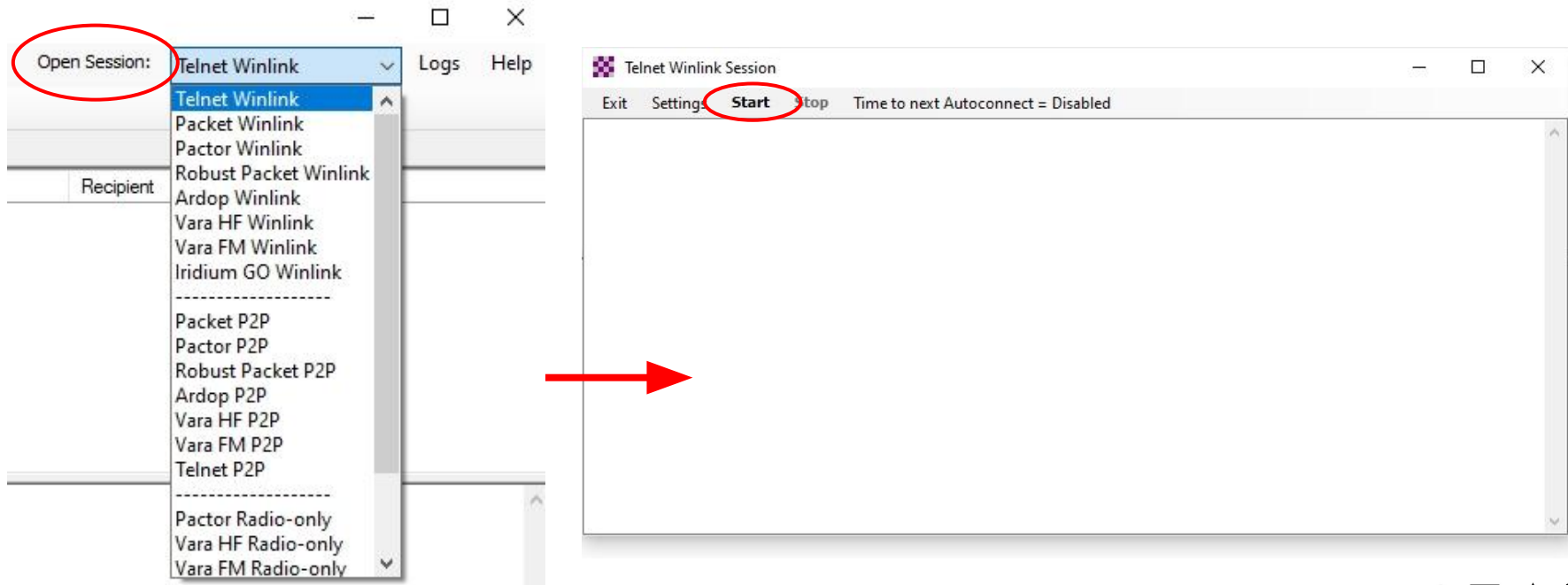




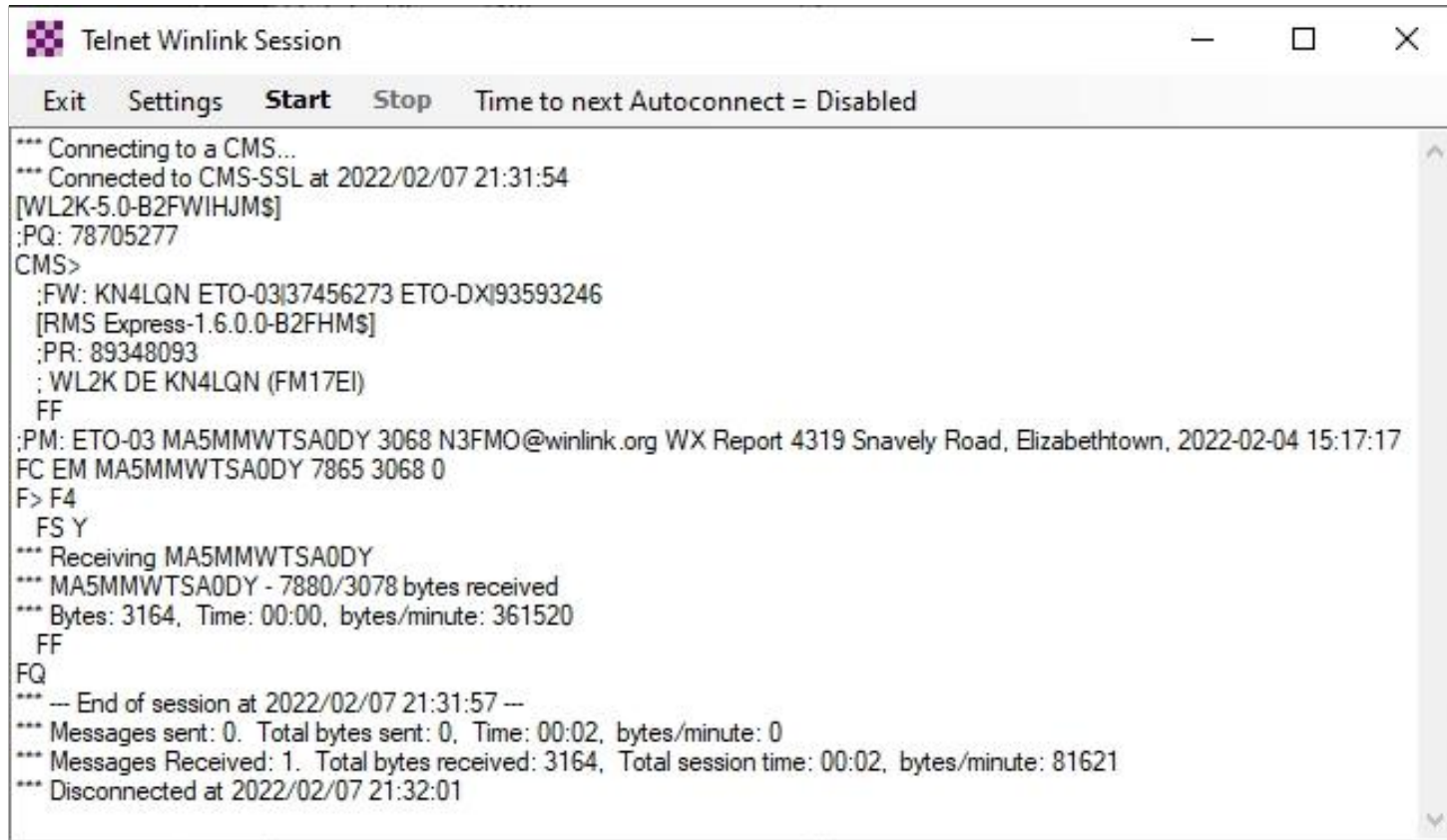
A screenshot of the Winlink Express Help Contents window. The window title is 'Winlink Express'. The 'Contents' tab is active, showing a tree view of help topics. The 'Winlink Express Overview' topic is selected and highlighted in blue. The main content area displays the 'Winlink Express Overview' page, which features the Winlink logo (a globe with the text 'WINLINK Global Radio Email®') and the date '2/7/2022'. Below the logo, the title 'Winlink Express Overview' is displayed in blue. The text below the title reads: 'Winlink Express is a radio email client program that can function with no Internet. It supports multiple callsigns, and each callsign may have assigned tactical addresses. Winlink Express can support HF sound card modes like ARDOP and VARA, as well as Pactor, VHF/UHF packet, Vara FM, Robust HF Packet and direct telnet to Winlink CMS servers.' Below this, it states: 'Winlink Express is the primary client program for the WINLINK RADIO EMAIL SYSTEM. You can send and receive email messages from virtually any place on the earth. It uses the B2F protocol that supports attachments, multiple addresses, and tactical addresses. Winlink Express is a radio email client program that can function with no Internet. It supports multiple callsigns, and each callsign may have assigned tactical addresses. Winlink Express can support HF sound card modes like ARDOP and VARA, as well as Pactor, VHF/UHF packet, Vara FM, Robust HF Packet and direct telnet to Winlink CMS servers.'



## First session / finish registration



## Messages transfer through sessions



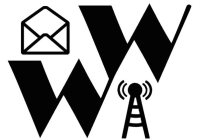
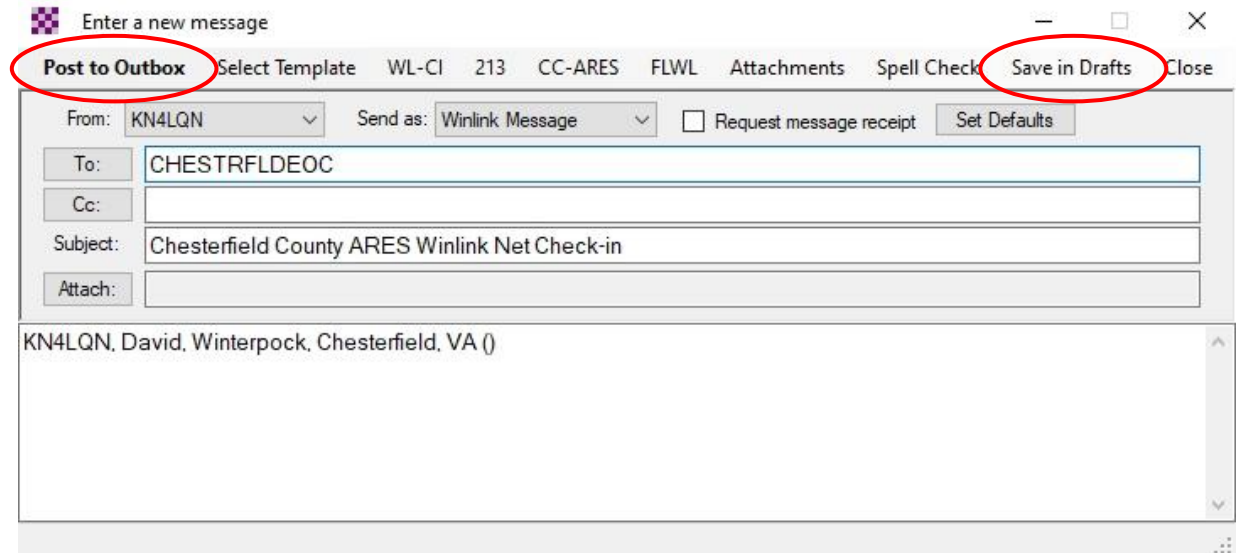
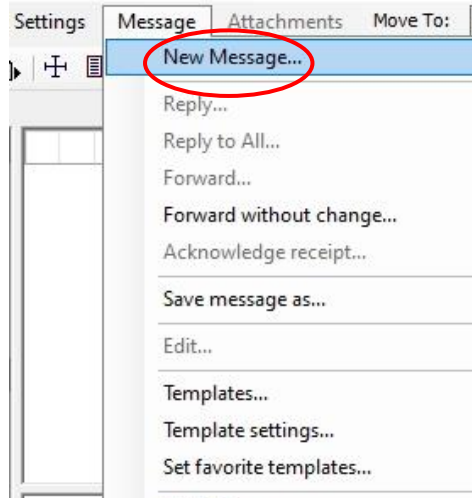
```
Telnet Winlink Session
Exit  Settings  Start  Stop  Time to next Autoconnect = Disabled

*** Connecting to a CMS...
*** Connected to CMS-SSL at 2022/02/07 21:31:54
[WL2K-5.0-B2FWIHJM$]
:PQ: 78705277
CMS>
:FW: KN4LQN ETO-03|37456273 ETO-DX|93593246
[RMS Express-1.6.0.0-B2FHMS]
:PR: 89348093
:WL2K DE KN4LQN (FM17EI)
FF
:PM: ETO-03 MA5MMWTA0DY 3068 N3FMO@winlink.org WX Report 4319 Snavely Road, Elizabethtown, 2022-02-04 15:17:17
FC EM MA5MMWTA0DY 7865 3068 0
F> F4
FS Y
*** Receiving MA5MMWTA0DY
*** MA5MMWTA0DY - 7880/3078 bytes received
*** Bytes: 3164, Time: 00:00, bytes/minute: 361520
FF
FQ
*** -- End of session at 2022/02/07 21:31:57 --
*** Messages sent: 0. Total bytes sent: 0, Time: 00:02, bytes/minute: 0
*** Messages Received: 1. Total bytes received: 3164, Total session time: 00:02, bytes/minute: 81621
*** Disconnected at 2022/02/07 21:32:01
```

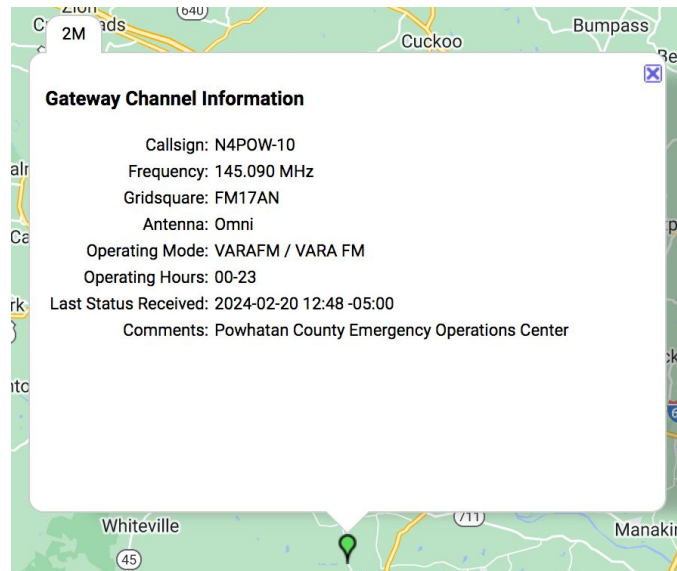
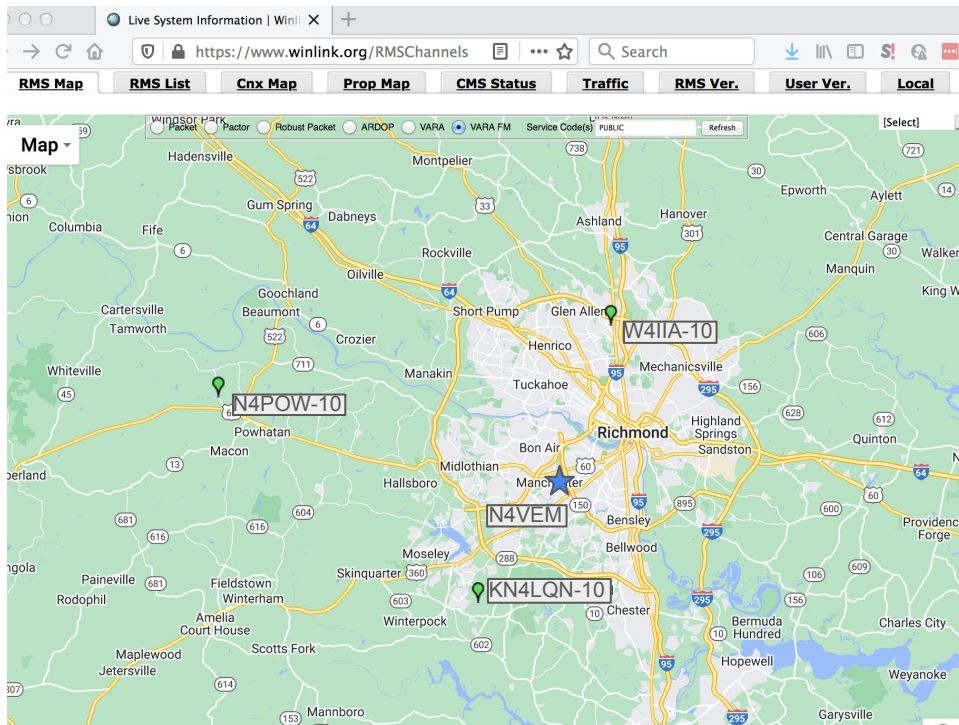


# Compose, Post to Outbox, run a Session

12.0 - KN4LQN



## Use Maps to find local RMS gateways





## Radio interfaces:

- USB
- Serial
- Bluetooth
- Mini-din
- Internal TNC
- Home-made PTT

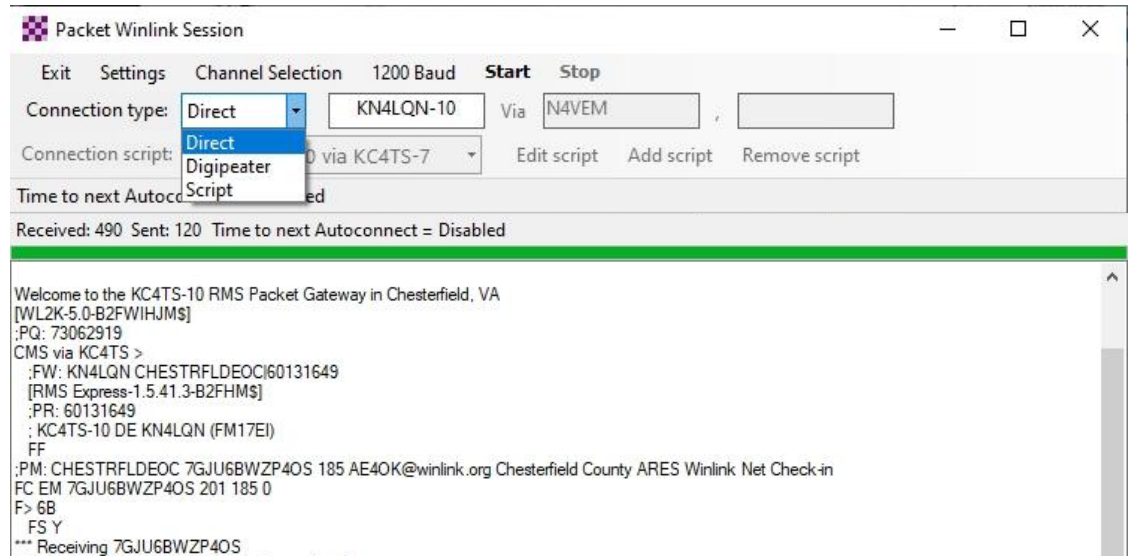
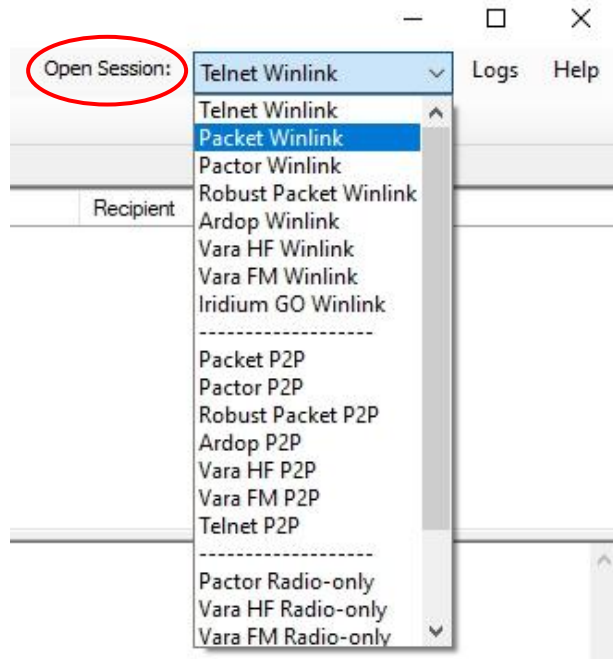


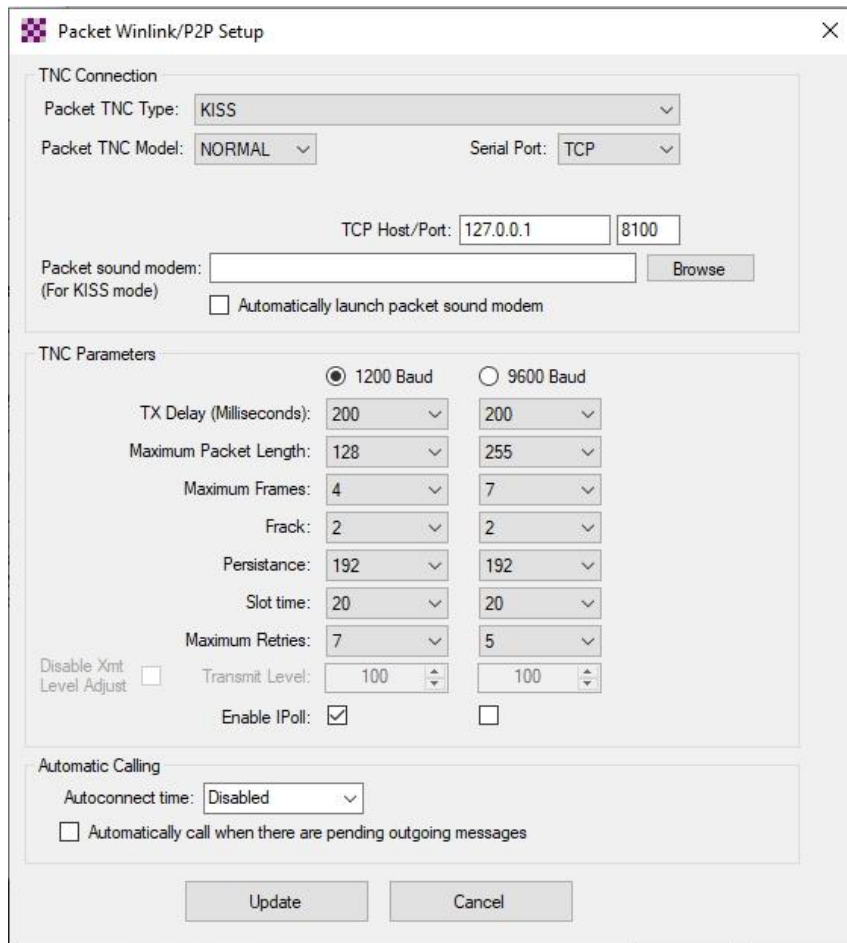
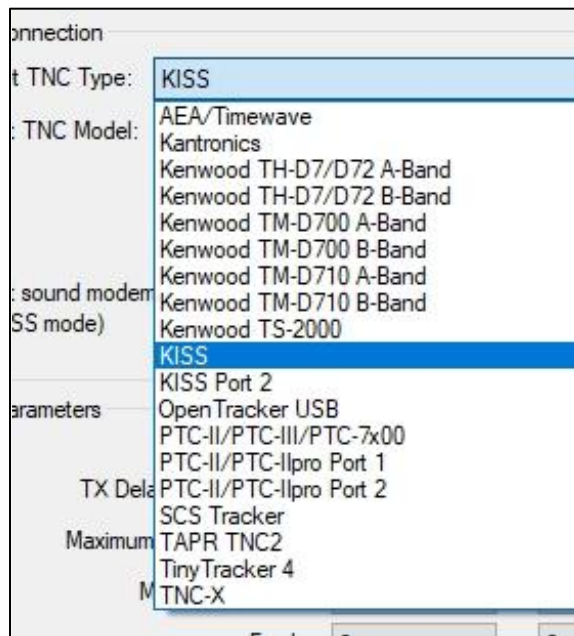
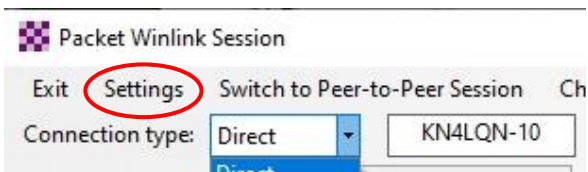
## Sound interfaces:

- Internal Soundcard
- Speaker / Mic
- Signalink
- Digirig
- Master DRA
- Rigblaster
- Mobilinkd
- Packet controller

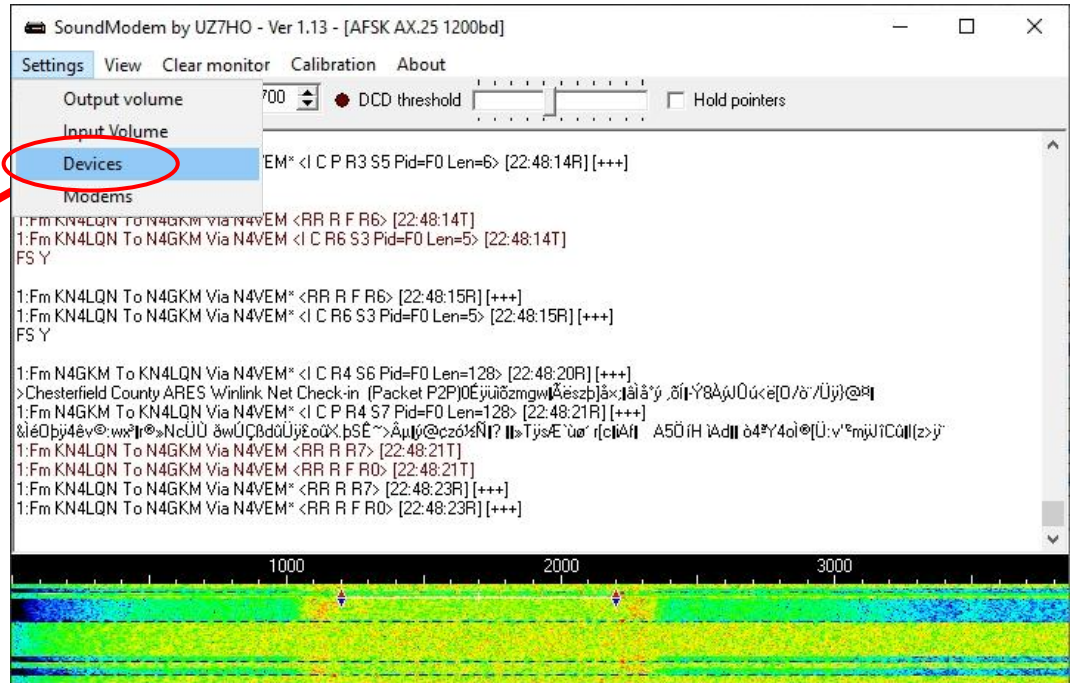
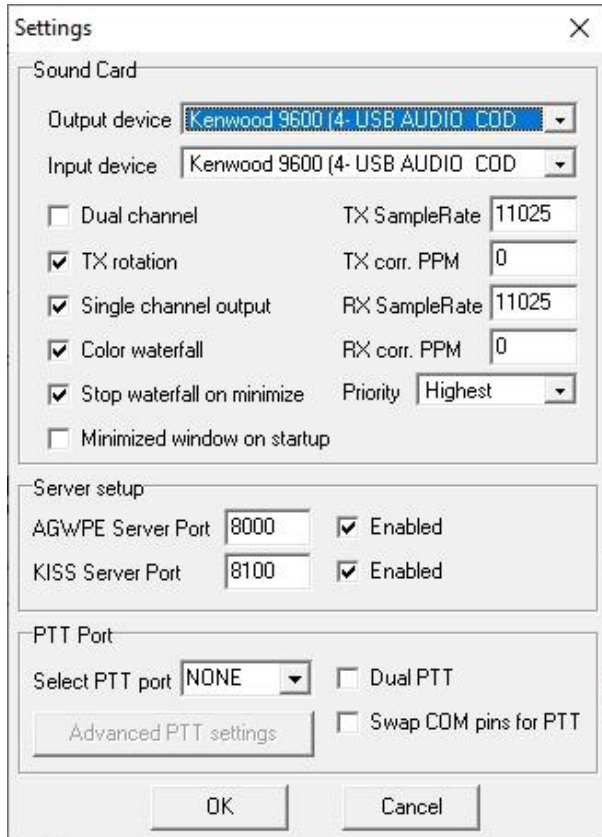


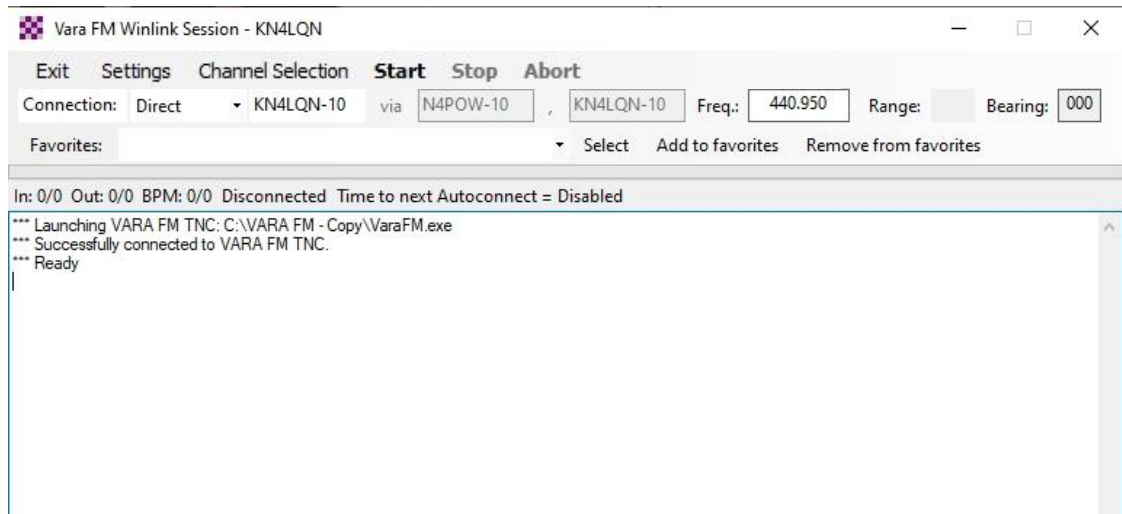
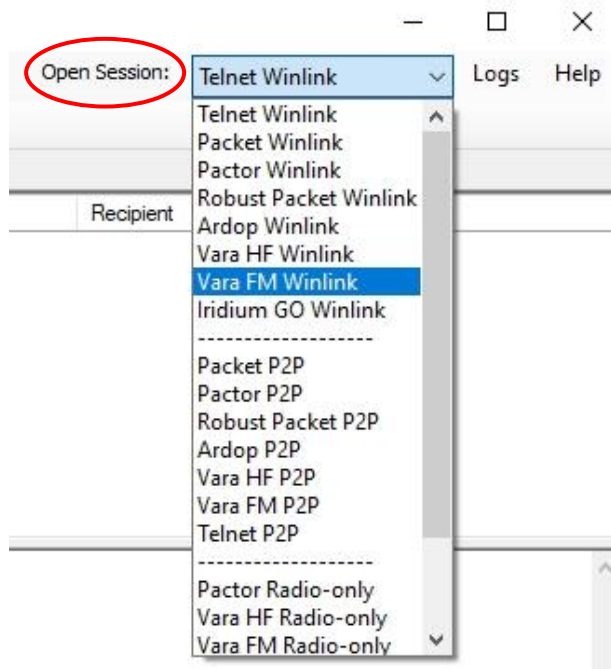
## VHF/UHF - Packet / AX.25



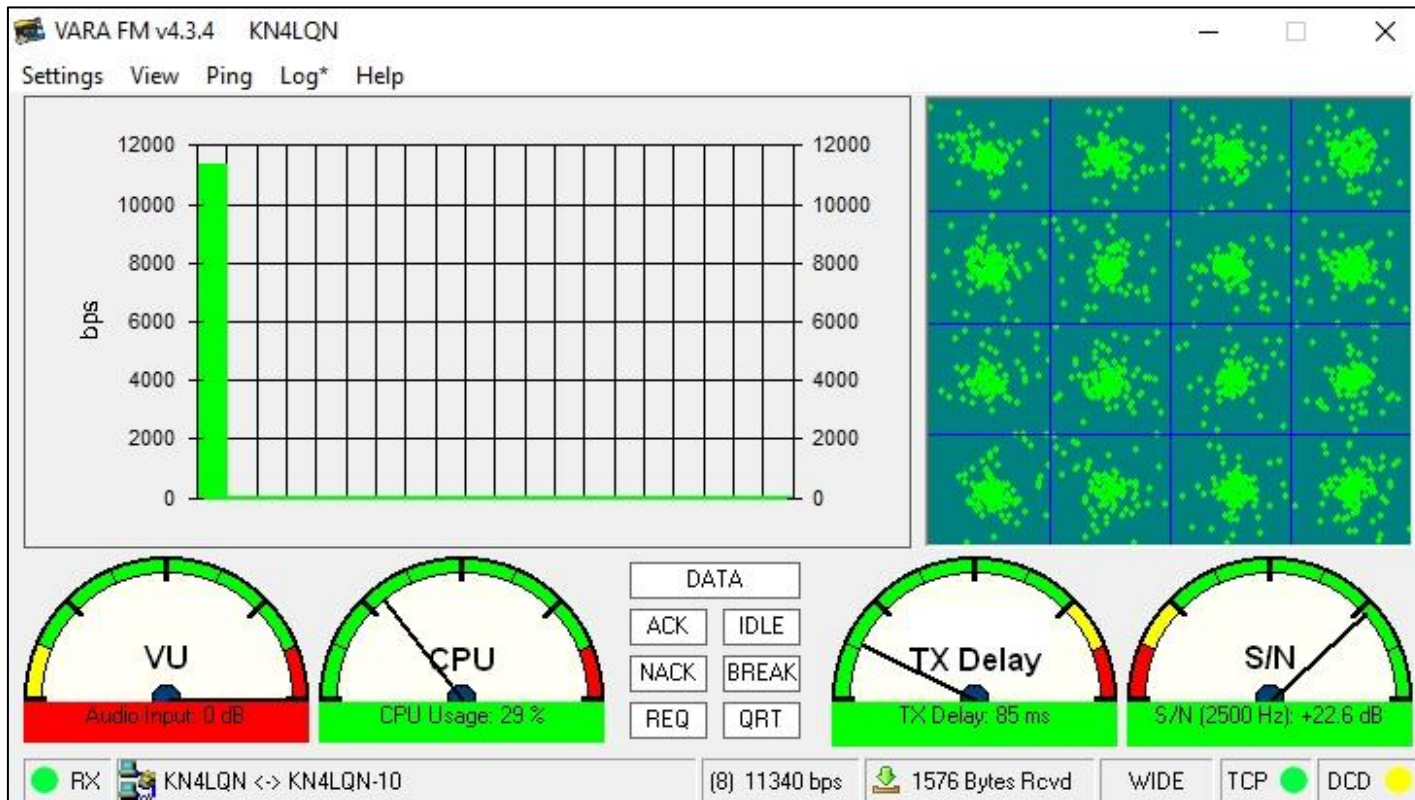


# SoundModem - Software Packet TNC - <http://uz7.ho.ua/packetradio.htm>



VHF/UHF - VARA FM - <https://rosmodem.wordpress.com/>

## VARA FM TNC



# TNC Setup

**Vara FM Setup**

Virtual TNC host address/name:

Virtual TNC Command Port:  Data Port:

VARA FM Modem location:

Automatically launch Vara FM TNC when session is opened

Automatic Calling

Autoconnect time:

Automatically call when there are pending outgoing messages

**VARA Setup**

TCP Ports: Command  Data

FM System:

Digipeater:

Retries:

Allow VARA check for updates

KISS interface

VARA Licenses

Callsign:	Registration Key:
<input type="text" value="KN4LQN"/>	<input type="text" value="XXXXXXXXXXXXXXXXXXXX"/>
<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>

**42 baud Symbol Rate  
Legal on 2 meters band**

SQL

DATA OUT 9600bps

GND

DATA

DATA OUT 1200bps

PTT

DATA IN

to PC input

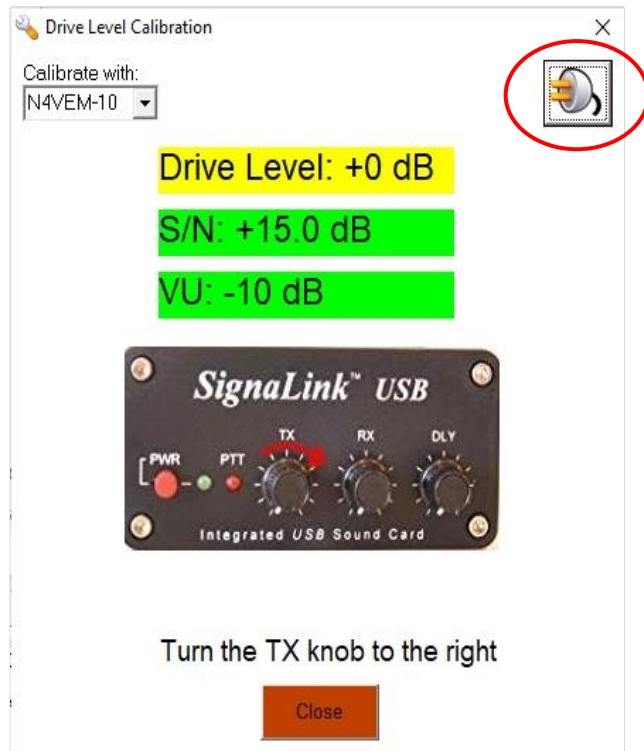
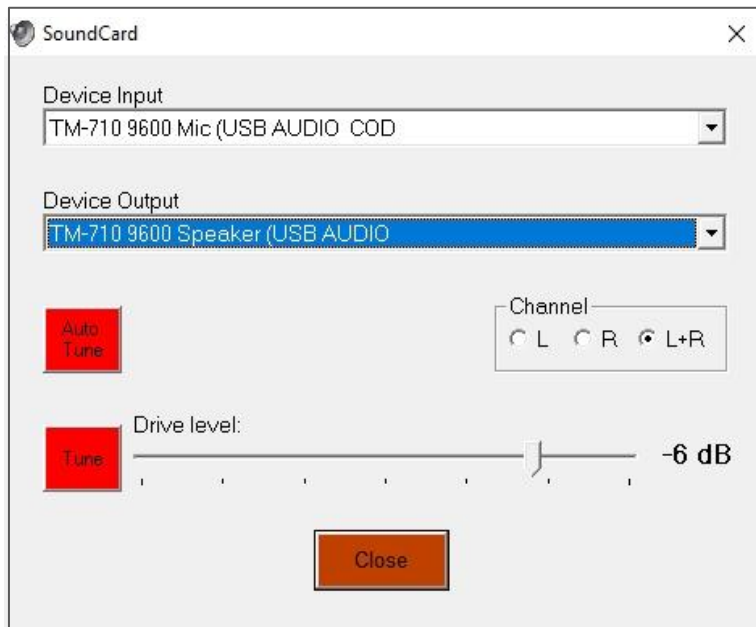
from PC output

\* VARA FM WIDE needs a FM rig set for 9600 Packet operation, with a special soundcard interface (6 kHz BW) connected to rear panel: RA-Board, Signalink "Black" transforms, Modified Signalink (red audio transforms removed), homebrew interface (a simple direct cable)...

\* In other case, you must select VARA FM NARROW



# TNC Soundcard settings

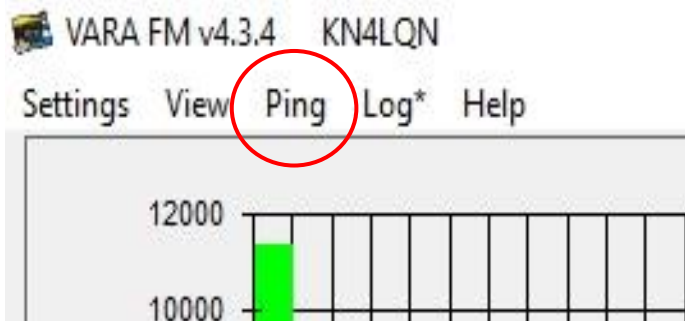




# TNC Soundcard settings

VARA FM v4.3.4 KN4LQN

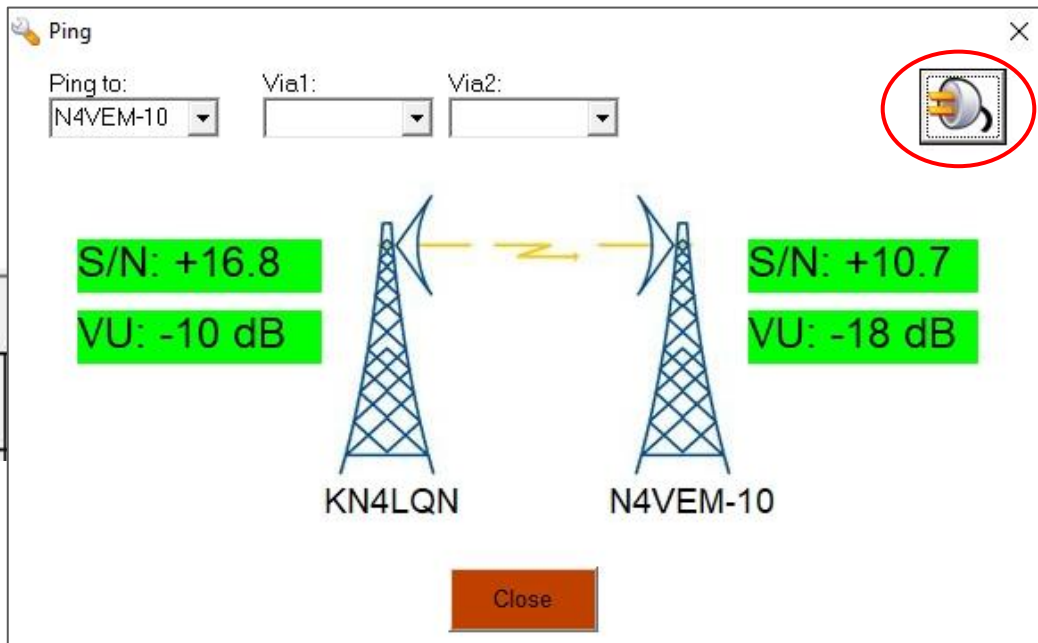
Settings View Ping Log\* Help



The screenshot shows the VARA FM v4.3.4 interface for user KN4LQN. The 'Ping' menu item is circled in red. Below the menu is a bar graph with a vertical axis ranging from 10000 to 12000. The first bar is highlighted in green, indicating a ping result.

Ping

Ping to: N4VEM-10 Via1: Via2:



The screenshot shows the 'Ping' dialog box in VARA FM. It displays the 'Ping to' field set to 'N4VEM-10'. The 'Via1' and 'Via2' fields are empty. A red circle highlights the 'Ping' icon in the top right corner. The main area shows two radio towers representing stations KN4LQN and N4VEM-10. Between them is a yellow lightning bolt indicating a signal path. For KN4LQN, the signal strength is S/N: +16.8 and VU: -10 dB. For N4VEM-10, the signal strength is S/N: +10.7 and VU: -18 dB. A 'Close' button is at the bottom.



## HF - ARDOP

ARDop Winlink Session - KN4LQN

Exit Settings Channel Selection Map Forecast Best chan. Next chan. **Start** Stop Abort

KE4KEW Center Freq. (kHz): 3566.500 Dial Freq. (kHz): 3565.000 Bearing: 304 Quality: 57

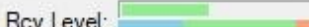
Favorites: Select Add to favorites Remove from favorites

Channel Free In: 0/0 Out: 0/0 BPM: 0/0 Disconnected

\*\*\* ARDOP Winlink session  
\*\*\* Using Kenwood Amateur, COM6, 57600 baud  
\*\*\* Waiting for TNC to initialize...  
\*\*\* Ready to start calling.

ARDOP\_Win Virtual TNC Ver: 1.0.2.5

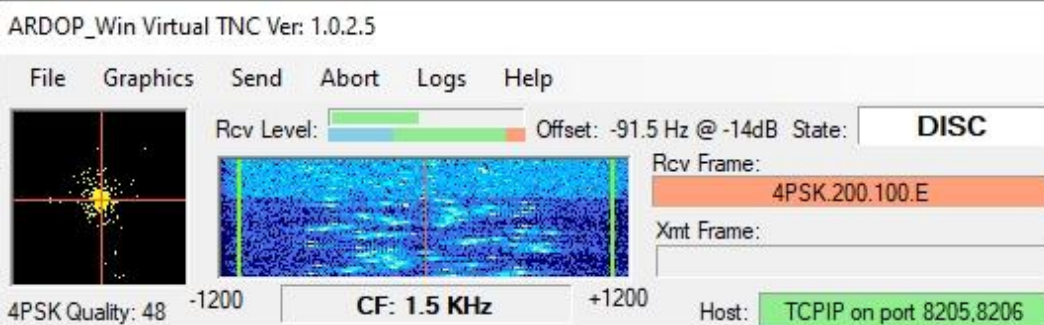
File Graphics Send Abort Logs Help

Rcv Level:  Offset: -91.5 Hz @ -14dB State: **DISC**

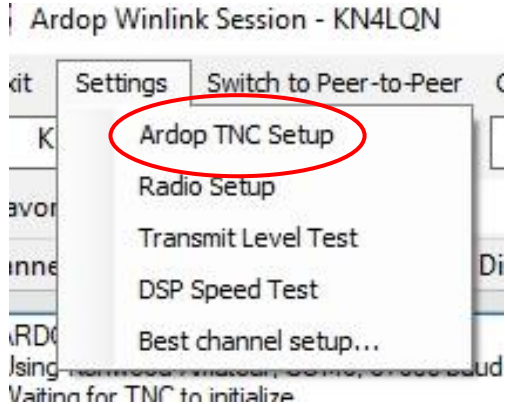
Rcv Frame: 4PSK.200.100.E

Xmt Frame:

4PSK Quality: 48 -1200 CF: 1.5 KHz +1200 Host: TCPIP on port 8205,8206



## TNC settings



**Ardop Setup**

Identify with Morse Code

Set the soundcards in the ARDOP TNC by clicking File/Virtual TNC Setup

Virtual TNC host address/name:

Virtual TNC Command Port:  Data Port:

Session Bandwidth:  Drive Level:

Connect request repeats:

Show ARDOP TNC screen when it's launched



# Radio Setup

Ardop Winlink Session - KN4LQN



Ardop Winlink Settings

Radio Selection

Select Radio Model: Kenwood Amateur Antenna Selection: Default

Icom Address: 00 USB (selected) USB Digital (unselected) FM (unselected) Use Internal Tuner (unselected) Use Internal Soundcard (checked)

Codan Radios

Codan login and optional password: [ ] Filter width: 2.4 kHz

Enable ALE scanning after session completes

Radio Control Port

Serial Port to Use: COM6 Baud: 57600 Enable RTS (unselected) Enable DTR (unselected) TTL (unselected)

PTT Port (Optional)

Serial Port to Use: External Baud: 9600 Enable RTS (checked) Enable DTR (checked)

Log radio control commands

Update Cancel



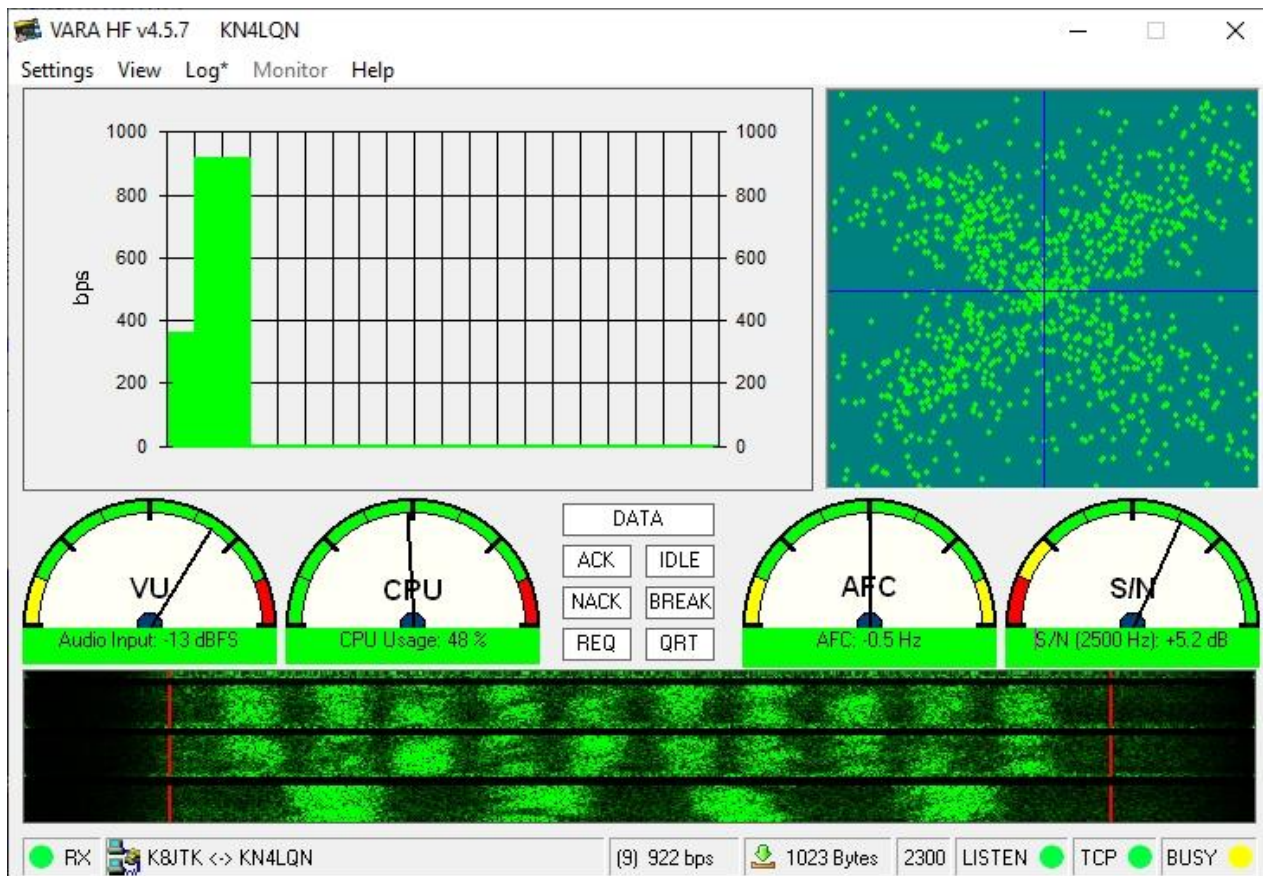
HF - VARA HF - <https://rosmodem.wordpress.com/>

The image displays two overlapping windows from the VARA HF software. The top window, titled "Vara HF Winlink Session - KN4LQN", shows a control panel with fields for "KE4KEW", "Center Freq: 3586.600", "Dial Freq: 3585.100", "Bandwidth: 2300", "Bearing: 309", and "Quality:". Below these are "Favorites" options and a status bar indicating "Channel Free In: 0/0 Out: 0/0 BPM: 0/0 Disconnected". A log window below the control panel shows the following text:

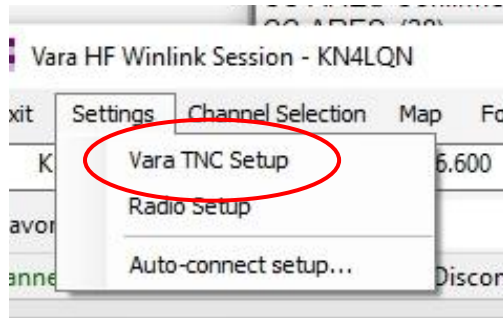
```
*** Launching VARA TNC
*** Successfully connected to VARA TNC at 127.0.0.1 port 8305
*** Maximum signal bandwidth is set to 2300 Hz.
*** Using Kenwood Amateur, COM6, 57600 baud
*** Ready
*** This is a registered version of Vara TNC that can operate at full speed.
```

The bottom window, titled "VARA HF v4.8.4 KN4LQN", features a menu bar (Settings, View, Log\*, Monitor, Help) and a central control area with four analog meters: VU (Audio Input: -16 dB), CPU (CPU Usage: 26%), AFC, and S/N. To the right of the meters are buttons for DATA, ACK, IDLE, NACK, BREAK, REQ, and QRT. At the bottom, there are status indicators for RX (Disconnected), a frequency of 2300, and a mode of LISTEN, along with TCP and DCD status lights.





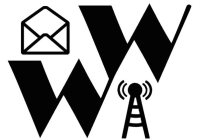
## TNC settings



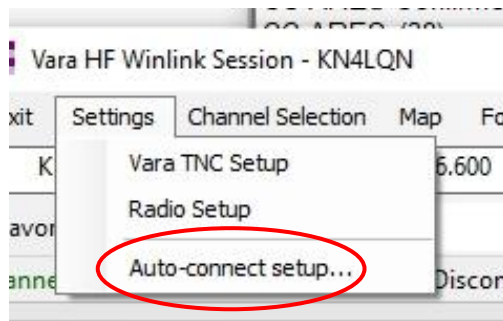
Launching VARA TNC  
Successfully connected to VARA TNC at 127.0.0.1  
Maximum signal bandwidth is set to 2300 Hz.

The 'Vara Setup' dialog box is shown. It contains the following fields and options:

- Virtual TNC host address/name:
- Virtual TNC command port:  (with up/down arrows)
- Data Port:
- Maximum signal bandwidth:  (with a dropdown arrow)
- (Vara 2750 requires radio TX filter set for 100-2900 Hz and RX bandwidth of 3000)
- VARA Modem location:
- Automatically launch Vara TNC when session is opened
- Show the Vara TNC screen when it's launched
- Identify with Morse code at end of session
- Buttons: Update, Cancel



## TNC settings



Launching VARA TNC  
Successfully connected to VARA TNC at 127.0.0.1  
Maximum signal bandwidth is set to 2300 Hz.

The 'Auto-Connect Settings' dialog box is shown with the following options:

- Options for Automatic Connection Feature
  - Minimum Factor level: P3
  - Minimum Vara bandwidth: 2300
  - Minimum path quality: 40
  - Minimum distance away: 1 miles
  - Seconds for status to settle: 2
  - Seconds not busy: 3
  - Max call history propagation bias: 4
  - Minimum Vara SNR: -11.0 dB
  - Restrict radio-only connections to your registered MPS
- Allowed Frequency Ranges
  - Specify one range per line in kHz
  - XXXXX.XXX-XXXXX.XXX
- Excluded RMS
  - Specify one callsign per line

Buttons: Show Call History, Save, Cancel





## Setup

**VARA Setup**

TCP Ports:  
Command: 8300  
Data: 8301

VARA Licenses:  
Callsign: KN4LQN  
Registration Key: [XXXXXXXXXXXXXXXXXXXX]

Allow VARA check for updates via internet  
 Accept 500 Hz connections  
 Tuner enhancement  
 CW ID  
 KISS Interface  
 RA-Board PTT     SysLog

Retries: 5

Close

**SoundCard**

Device Input: HF 1200 Mic (3- USB AUDIO CODE)  
Device Output: HF 1200 Speaker (3- USB AUDIO)  
Channel: CL CR L+R

Drive level: -3 dB  
Press Tune and set the Drive Level for ALC=1/3

**TUNE** USB-D FIL2 11:47 RF PWR

**TX** 14.067.00 VFO A 11

S 1 3 5 7 9 +20 +40 +60dB  
P.AMP1 AGC-F AN NB  
Po 0 25 50 100%

ALC 1/3 ALC

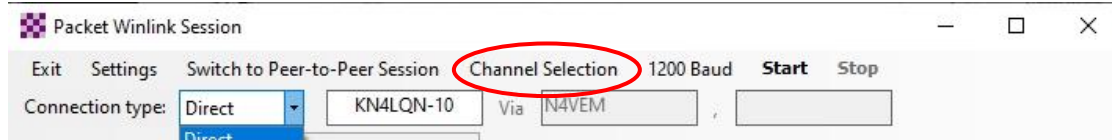
COMP 0 5 10 15 20 dB  
Vb 10 16V

SWR 1 1.5 2 2.5 3 ∞  
TEMP COOL HOT

Id 0 5 10 15 20 25A

Close





Vara FM Channel Selector

Select Channel Update Table Via Internet Update Table Via Radio Exit

Stations found within 185 miles of your grid square.

Callsign	Frequency (MHz)	Channel Width	Grid Square	Group	Distance (mi)	Bearing (Degrees)
KN4LQN-10	145.090	Wide	FM17EI	PUBLIC	000	000
W4IIA-10	145.090	Narrow	FM17GP	PUBLIC	023	024
N4POW-10	145.090	Narrow	FM17AN	PUBLIC	023	309
AE4ML-11	440.450	Wide	FM18CE	PUBLIC	059	351
WX4EMC-13	440.450	Narrow	FM18GF	PUBLIC	061	009
KA4FOX-10	145.090	Narrow	FM08SA	PUBLIC	065	316
AE4ML-13	440.450	Narrow	FM18GH	PUBLIC	067	008
KE4DV-10	440.450	Wide	FM17TE	PUBLIC	070	099



Ardop Winlink Session - KN4LQN

Exit Settings Switch to Peer-to-Peer **Channel Selection** Map Forecast Best chan. Next chan. Start Stop Abort

KE4KEW Center Freq. (kHz): 3566.500 Dial Freq. (kHz): 3565.000 Bearing: 304 Quality: 57

HF Channel Selector

Select Channel Update Via Internet Update Via Radio Map Forecast SFI Exit All RMS

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate
KN4LQN	3592.000	V2300	FM17EI	00-23	PUBLIC	0	000	99	99
N4CEC-10	7083.500	V500	FM16US	00-23	PUBLIC	84	118	99	58
NA3MD	7101.500	V2750	FM18QT	00-23	PUBLIC	114	028	99	57
KO2F	7101.500	V2750	FM08XN	00-23	PUBLIC	86	345	99	57
N2LEE	7103.500	V2300	FM18HX	00-23	PUBLIC	113	007	99	57
WB3KAS	7090.000	V500	FM18NR	00-23	PUBLIC	104	023	99	57
W4RJG	7101.900	V2750	FM06NQ	00-23	PUBLIC	83	237	99	57
W3TBG	7098.700	V500	FM28FP	00-23	PUBLIC	145	051	98	57
N3HU-10	7103.500	V2750	FM19SA	13-01	PUBLIC	132	028	98	57
N3HYM-10	7102.500	V2300	FM19GK	00-23	PUBLIC	145	004	98	57



Enter a new message

Close **Select Template** WL-CI 213 CC-ARES FLW

From: KN4LQN Send as: Winlink Message

To:

Cc:

Subject:

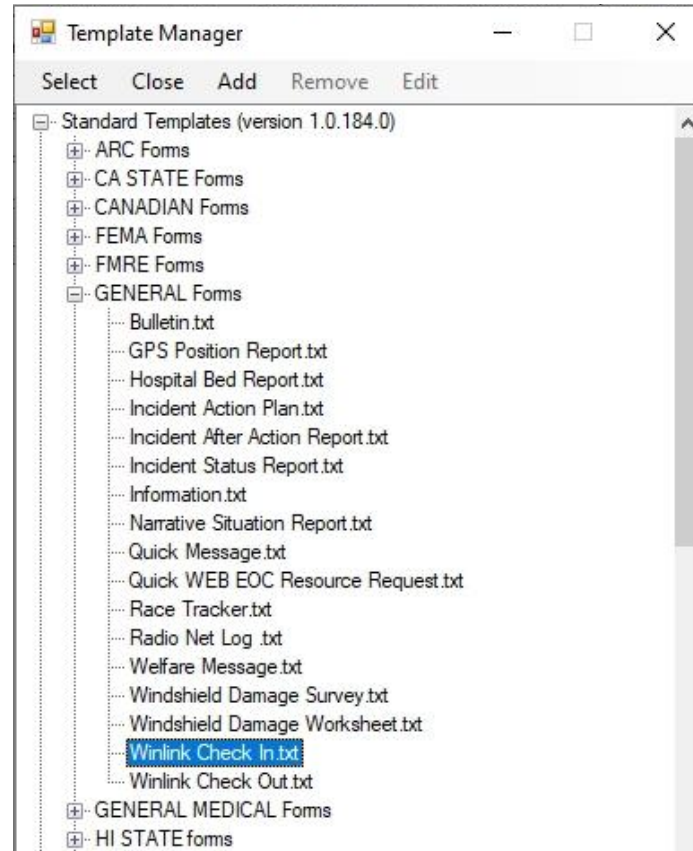
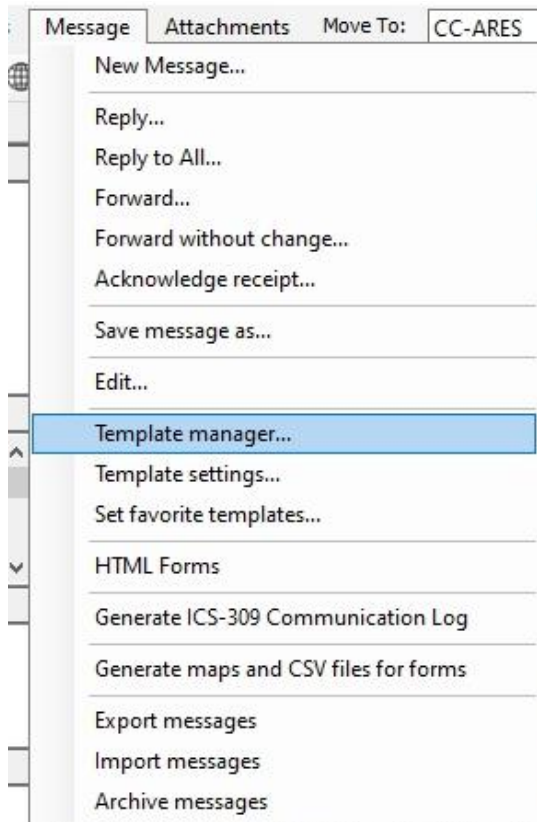
Attach:


Template Manager

Select Close Add Remove Edit

- Standard Templates (version 1.0.184.0)
  - ARC Forms
  - CA STATE Forms
  - CANADIAN Forms
  - FEMA Forms
  - FMRE Forms
  - GENERAL Forms
  - GENERAL MEDICAL Forms
  - HI STATE forms
  - HICS Forms
  - IARU Forms
  - ICS USA Forms
  - MAPPING-GIS FORMS
  - OR STATE Forms
  - RADIOGRAM & RRI Forms
  - SHARES Forms
  - TX STATE Forms
  - USGS
  - WA STATE Forms
  - WEATHER Forms
- Global Templates
- KN4LQN Templates
  - CC-ARES Reminder.txt
  - CC-ARES Thank you.txt
  - CC-ARES.txt
  - FLWL-VARA-P2P.txt
  - FLWL.txt
  - Winlink\_Thursday\_2022-03-10\_Exercise\_V2.txt





 Set Favorite Templates

Up to four favorite templates can be specified.  
These templates will be shown on the message composition menu bar.

Favorite Template 1

Display name:

File name:

Favorite Template 2

Display name:

File name:

Favorite Template 3


Display name:

File name:

Favorite Template 4

Display name:

File name:

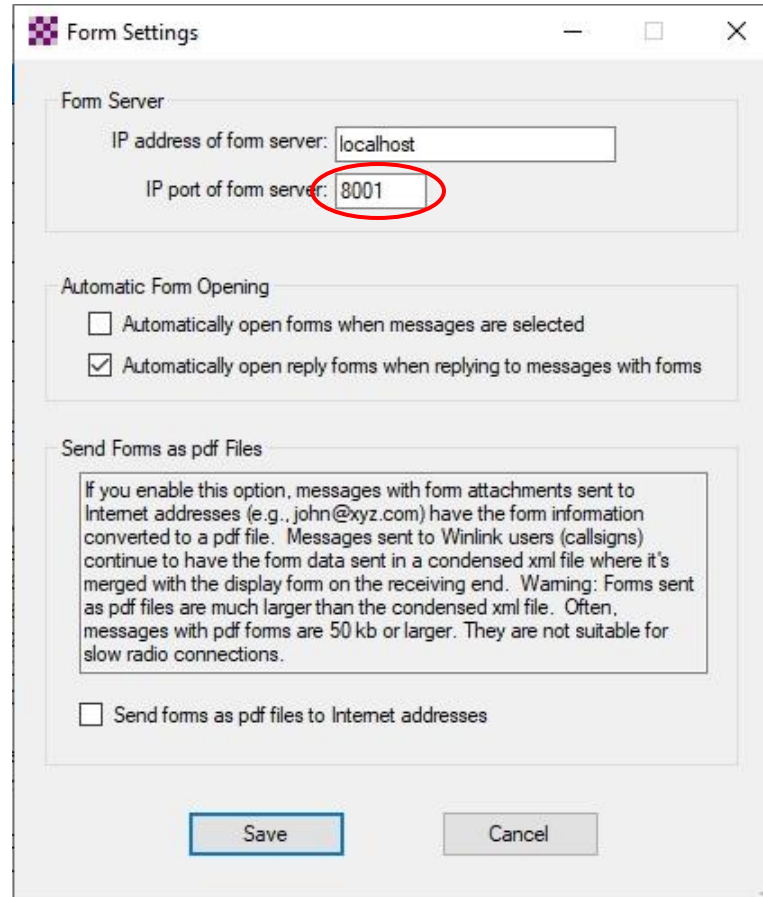
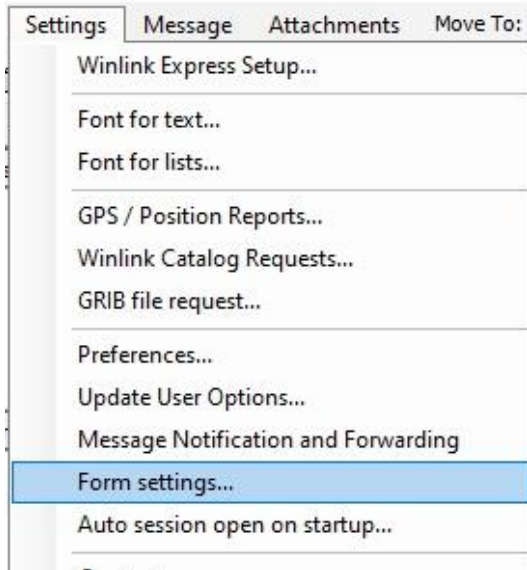
 Enter a new message

WL-CI 213 CC-ARES FLWL

From:   Send as:    Request

To:





Check In-Initial

File | C:/RMS%20Express/KN4LQN/Temp/Winlink\_Check\_In\_Initial.html

### Winlink Check In

ETO Winlink Thursday

**Setup** Click to add your agency/group name to title **Load Check in Data** [Form Info](#)

*This is for an initial check in via Winlink Express. Also sent as plain text in message body for non-Express users.*

Date/Time:  Select Status:  Exercise Net:  Band:  Mode:  Telnet Packet:

Send To:  [Clear ALL "Send To" Entries.](#)  
*Entries will remain until you change or clear them*

Calls Signs of Initial On-Site Operator(s):

Station Contact Name:  Station Call sign:

Location:

Latitude and longitude: LAT  LON  MGRS  Grid

Comments *Max Characters 180*

Such as: On batteries. Need relief in 6 hours. A Brief SitRep. Operators Names. Special notes for next shift. Mode being used that was indicated as OTHER.





Check In-Initial

File | C:/RMS%20Express/KN4LQN/Temp/Winlink\_Check\_In\_Initial.html

Send To: ETO-03

Entries will remain in the "Send To" Entries.

Calls Signs of Initial On-Site Operator(s):

Station Contact Name: David Elkins

This page says  
To complete your form submission, click OK and close the open browser window. You will return to the new message window so you can post your message to the outbox

OK Cancel

Location: Chesterfield, VA

Latitude and longitude: LAT 37.347833 LON -77.650333 MGRS 18STG6524036755 Grid FM17ei

Comments *Max Characters 180*

Such as: On batteries. Need relief in 6 hours. A Brief SitRep. Operators Names. Special notes for next shift. Mode being used that was indicated as OTHER.

Save Check in Data Submit Reset Form

Ver 4.0.5



Enter a new message

Close Select Template WL-CI 213 CC-ARES FLWL Attachments Post to Outbox Spell Check Save in Drafts

From: KN4LQN Send as: Winlink Message  Request message receipt Set Defaults

To: ETO-03

Cc:

Subject: Winlink Check In [Net]-KN4LQN-Chesterfield, VA

Attach: RMS\_Express\_Form\_Winlink\_Check\_In\_Viewer.xml;FormData.txt

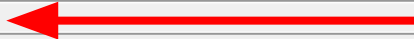
ETO Winlink Thursday Check-in  
Status: [Net]  
Date/Time: 2022-03-15 10:36:32  
Initial Assigned Operators: KN4LQN  
Station Contact Name: David Elkins  
Call/Tactical Sender: KN4LQN  
Location: Chesterfield, VA  
GPS Coordinates: LAT 37.347833 LON -77.650333 MGRS Coordinates: 18STG6524036755 Grid Square: FM17ei  
Band Used: VHF  
Session Type: Packet  
Call/Tactical Sender: KN4LQN

Comments:

Below Info Used for Copy and Paste to Spreadsheet

TAB Delimited:









ETO Winlink Thursday	2022-03-15 10:36:32	KN4LQN	KN4LQN	David Elkins	Chesterfield, VA	37.347833,-77.650333
18STG6524036755	FM17ei	VHF	Packet			



```

<?xml version="1.0"?>
- <RMS_Express_Form>
  - <form_parameters>
    <xml_file_version>1.0</xml_file_version>
    <rms_express_version>1.6.1.2</rms_express_version>
    <submission_datetime>20220315143749</submission_datetime>
    <senders_callsign>KN4LQN</senders_callsign>
    <grid_square>FM17EI</grid_square>
    <display_form>Winlink_Check_In_Viewer.html</display_form>
    <reply_template/>
  </form_parameters>
  - <variables>
    <msgto>ETO-03</msgto>
    <msgcc/>
    <msgsender>KN4LQN</msgsender>
    <msgsubject/>
    <msgbody/>
    <msgp2p>False</msgp2p>
    <msgro>False</msgro>
    <msgisreply>False</msgisreply>
    <msgisforward>False</msgisforward>
    <msgisacknowledgement>False</msgisacknowledgement>
    <msgseqnum>257</msgseqnum>
    <datetime>2022-03-15 10:36:32</datetime>
    <status>Net</status>
    <band>VHF</band>
    <session>Packet</session>
    <timestamp>20220315143632</timestamp>
    <timestamp2>2022-03-15T14:36:32.000Z</timestamp2>
    <organization>ETO Winlink Thursday</organization>
  </variables>
</RMS_Express_Form>

```

	Windshield Damage Worksheet.html	6/16/2020 12:45 PM
	Windshield Damage Worksheet.txt	6/16/2020 12:56 PM
	Winlink Check In.txt	3/3/2022 2:06 PM
	Winlink Check Out.txt	3/3/2022 2:07 PM
	Winlink_Check_In_Initial.html	3/2/2022 10:53 AM
	Winlink_Check_In_Viewer.html	3/2/2022 10:53 AM
	Winlink_Check_out_Initial.html	3/2/2022 10:53 AM
	Winlink_Check_out_Viewer.html	3/2/2022 10:53 AM





Create your own templates - HTML

winlink.org/content/create\_your\_own\_templates\_html

My Account Tools News Positions User Programs Book of Knowledge Download Support



## Create your own templates - HTML

Submitted by N6KZB on Wed, 2022-01-26 18:14

Download the PDF

Only use the Global > Templates folder, DO NOT install any created forms in the Standard Templates folder. The Standard Templates folder is deleted and then a new one installed upon being updated.

**Download(s):**


Attachment	Size
 <a href="#">Create your Own Templates</a>	138.38 KB
 <a href="#">Insertion Tags List</a>	5.22 KB

[< Configuring Winlink for use on the ham radio mesh network](#) [up](#) [Express forms use by a non-Express user.>](#)

**Amateur Radio Safety Foundation, Inc.**  
Winlink Global Radio Email® is an all-volunteer project of the Amateur Radio Safety Foundation, Inc. (ARSFI), a non-profit public benefit corporation with no beneficial owners.

**The Winlink Development Team**  
The Winlink radio email system and software are built, maintained and supported entirely by volunteers.

**Outstanding Volunteers**  
*The entire Winlink system is dedicated to the volunteer Gateway Station Sysops who support and run the thousand-plus stations around the world. Without them, Winlink would not exist. Be sure to write with generous*



```

Insertion Tags.txt - Notepad
File Edit Format View Help
--- Template Commands ---

Here is a list of available commands in the template. These lines must appear
before the "Msg:" line that starts the body of the message. All of these
commands are terminated by the end of the line except for "Msg:". The body of
the message starts on the line following "Msg:" and extends to the end of the
template. Note, you may omit the "Msg:" line if you don't want to specify a
body. All commands are optional. If a template command is omitted, the
corresponding field on the message will be unaltered.

Type:Winlink | P2P | RO - Select Winlink, Peer-to-Peer, or Radio-only message
transmission.
Ex: Type:Winlink or Type:P2P or Type:RO

To:[Target addresses] - If present, populates the To field on the form.
Ex: To:user1@mymail.com; user2@mymail.com

CC:[Target CC addresses] - If present, populates the CC field. The CC field is
not available for Peer-to-Peer messages.
Ex: CC:otheruser@mymail.com

Subj:[The desired subject line] - If present, populates the subject field.
Ex: Subj:Daily status report from <Callsign>

Attach:file1, file2, ... - If present, specifies one or more files to attach to
the message.
Ex: Attach:C:\Temp\File1.txt, C:\Pictures\Picture1.jpg

SeqSet: value - Sets the sequence number to the specified value. Note: the
normal way to set the sequence number is on the Template Settings page.
Ex: SeqSet: 0

SeqInc: [value] - Increments the sequence number by the specified value. If the
value is omitted, the sequence number is incremented by 1. The increment may be
negative. Note that SeqSet must be terminated by a colon even if no value is
Ln 1, Col 1    100%    Windows (CRLF)    UTF-8

```

```

Insertion Tags.txt - Notepad
File Edit Format View Help
--- Template Insertion Tags ---

Template insertion tags are enclosed by "<" and ">" characters. When
an insertion tag is found, it is replaced by the value it represents.
list of available tags. Tag keywords are not case sensitive.

<DateTime> - Inserts the current local date and time
Ex: 2011-07-12 17:13:05

<UDateTime> - Inserts the current UTC date and time
Ex: 2011-07-13 00:13:05Z

<Date> - Inserts the current local date
Ex: 2011-07-12

<UDate> - Inserts the current UTC date
Ex: 2011-07-13Z

<Time> - Inserts the current local time
Ex: 17:13:05

<UTime> - Inserts the current UTC time
Ex: 00:13:05Z

<Day> - Inserts the current local day of week
Ex: Tuesday

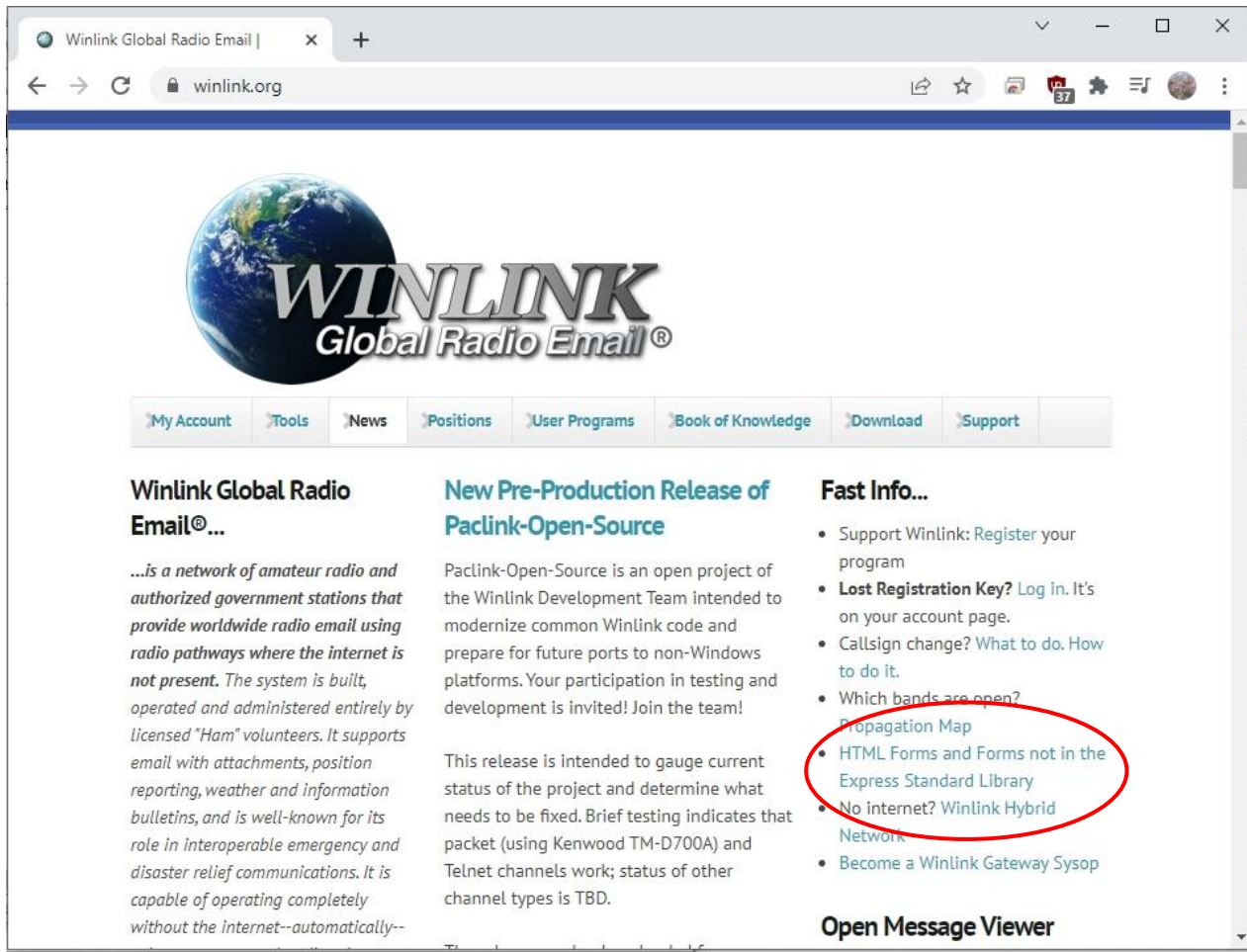
<UDay> - Inserts the current UTC day of week
Ex: Wednesday

<UDTG> - Inserts the current UTC military style date-time group
Ex: 241205Z NOV 2012

<GPS> - Inserts the current GPS location (if available)
Ex: 46.22 77N 121.35 01W
Ln 1, Col 1    100%    Windows (CRLF)

```





The screenshot shows the homepage of the Winlink Global Radio Email website. The browser address bar shows 'winlink.org'. The main header features a globe icon and the text 'WINLINK Global Radio Email®'. Below the header is a navigation menu with links: My Account, Tools, News, Positions, User Programs, Book of Knowledge, Download, and Support. The main content area is divided into three columns:

- Winlink Global Radio Email®...**

*...is a network of amateur radio and authorized government stations that provide worldwide radio email using radio pathways where the internet is not present. The system is built, operated and administered entirely by licensed "Ham" volunteers. It supports email with attachments, position reporting, weather and information bulletins, and is well-known for its role in interoperable emergency and disaster relief communications. It is capable of operating completely without the internet--automatically--*
- New Pre-Production Release of Paclink-Open-Source**

Paclink-Open-Source is an open project of the Winlink Development Team intended to modernize common Winlink code and prepare for future ports to non-Windows platforms. Your participation in testing and development is invited! Join the team!

This release is intended to gauge current status of the project and determine what needs to be fixed. Brief testing indicates that packet (using Kenwood TM-D700A) and Telnet channels work; status of other channel types is TBD.
- Fast Info...**
  - Support Winlink: Register your program
  - **Lost Registration Key? Log in.** It's on your account page.
  - Callsign change? What to do. How to do it.
  - Which bands are open?
  - [Propagation Map](#)
  - **HTML Forms and Forms not in the Express Standard Library**
  - No internet? [Winlink Hybrid Network](#)
  - Become a Winlink Gateway Sysop

At the bottom right, there is a link for **Open Message Viewer** and a logo consisting of a stylized 'W' with an antenna and a radio tower.



Click here to read more, and download!' The link is circled in red. Below this is a notice: 'Notice: Standard Library HTML templates are auto-updated to your system via an internet connection. [Auto Update Notice and Process](#)'. Another paragraph says: 'If needed, an EASY 4-step method to manually update HTML Standard Library Templates is available: [How To Manually Update Standard Forms](#)'. The page ends with the heading 'About HTML Forms' and the text: 'HTML form template files are used to send formatted documents between users of Winlink Express. Document content is'."/>

Winlink Express Forms Information

Submitted by w3qa on Wed, 2015-03-11 18:28

Some forms due to limited or local use have been removed from the Auto-update process of Standard Templates. However, they are still be available for individual download and manual installation into your Global > Templates directory. [Click here to read more, and download!](#)

**Notice:** Standard Library HTML templates are auto-updated to your system via an internet connection. [Auto Update Notice and Process](#)

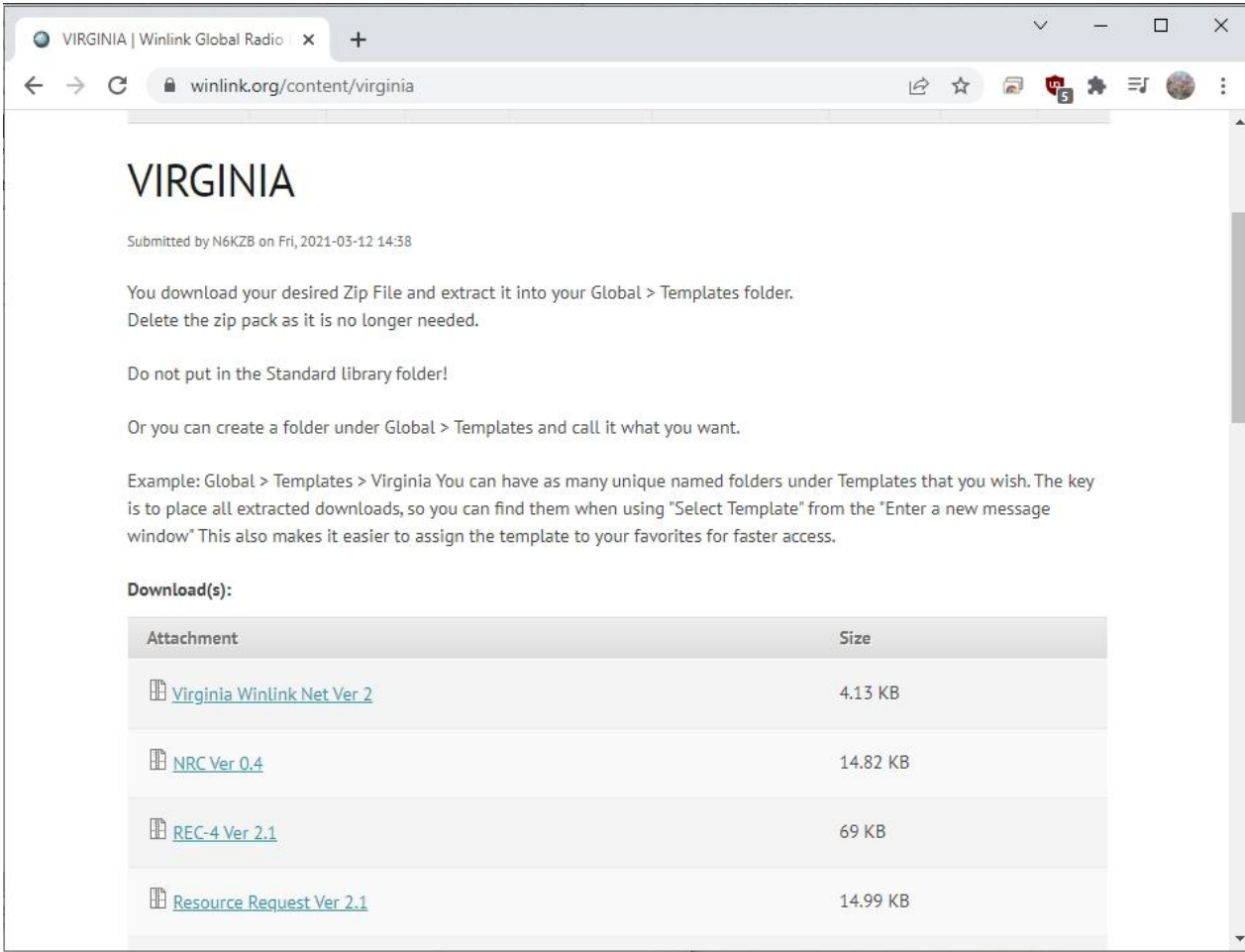
If needed, an EASY 4-step method to manually update HTML Standard Library Templates is available: [How To Manually Update Standard Forms](#)

### About HTML Forms

HTML form template files are used to send formatted documents between users of Winlink Express. Document content is







VIRGINIA

Submitted by N6KZB on Fri, 2021-03-12 14:38





You download your desired Zip File and extract it into your Global > Templates folder.  
Delete the zip pack as it is no longer needed.

Do not put in the Standard library folder!

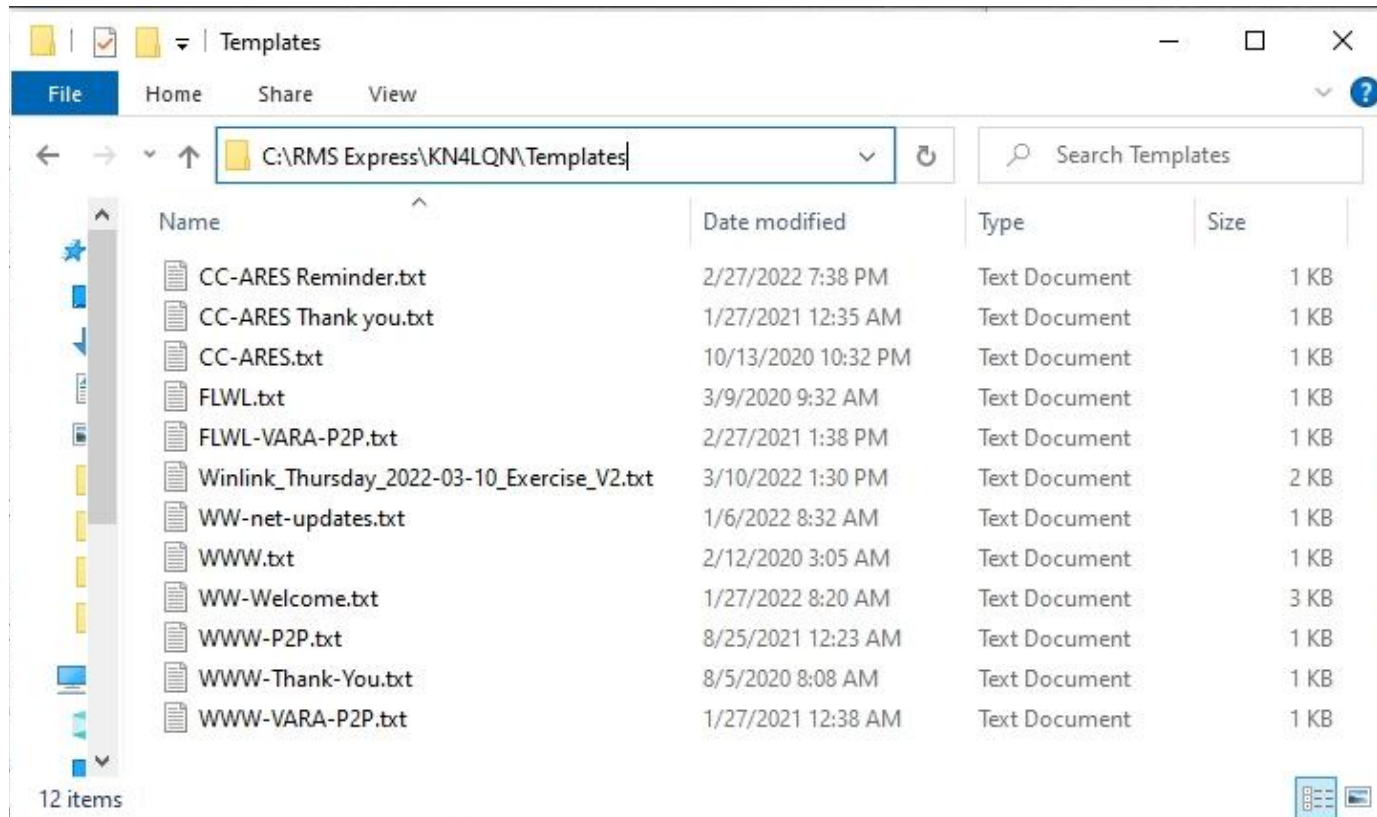
Or you can create a folder under Global > Templates and call it what you want.

Example: Global > Templates > Virginia You can have as many unique named folders under Templates that you wish. The key is to place all extracted downloads, so you can find them when using "Select Template" from the "Enter a new message window" This also makes it easier to assign the template to your favorites for faster access.

**Download(s):**

Attachment	Size
 <a href="#">Virginia Winlink Net Ver 2</a>	4.13 KB
 <a href="#">NRC Ver 0,4</a>	14.82 KB
 <a href="#">REC-4 Ver 2,1</a>	69 KB
 <a href="#">Resource Request Ver 2,1</a>	14.99 KB





File Explorer window showing the 'Templates' folder. The address bar indicates the path: C:\RMS Express\KN4LQN\Templates. The folder contains 12 items, all of which are text documents.

Name	Date modified	Type	Size
CC-ARES Reminder.txt	2/27/2022 7:38 PM	Text Document	1 KB
CC-ARES Thank you.txt	1/27/2021 12:35 AM	Text Document	1 KB
CC-ARES.txt	10/13/2020 10:32 PM	Text Document	1 KB
FLWL.txt	3/9/2020 9:32 AM	Text Document	1 KB
FLWL-VARA-P2P.txt	2/27/2021 1:38 PM	Text Document	1 KB
Winlink_Thursday_2022-03-10_Exercise_V2.txt	3/10/2022 1:30 PM	Text Document	2 KB
WW-net-updates.txt	1/6/2022 8:32 AM	Text Document	1 KB
WWW.txt	2/12/2020 3:05 AM	Text Document	1 KB
WW-Welcome.txt	1/27/2022 8:20 AM	Text Document	3 KB
WWW-P2P.txt	8/25/2021 12:23 AM	Text Document	1 KB
WWW-Thank-You.txt	8/5/2020 8:08 AM	Text Document	1 KB
WWW-VARA-P2P.txt	1/27/2021 12:38 AM	Text Document	1 KB



Template Editor

Template: C:\RMS Express\KN4LQN\Templates\CC-ARES.txt Save Cancel Help

Type: Winlink  
To: CHESTRFLDEOC  
Subj: Chesterfield County ARES Winlink Net Check-in  
Msg: KN4LQN, David, Winterpock, Chesterfield, VA ()

Enter a new message

Close Select Template WL-CI 213 CC-ARES FLWL Attachments Pos

From: KN4LQN Send as: Winlink Message  Request me

To: CHESTRFLDEOC

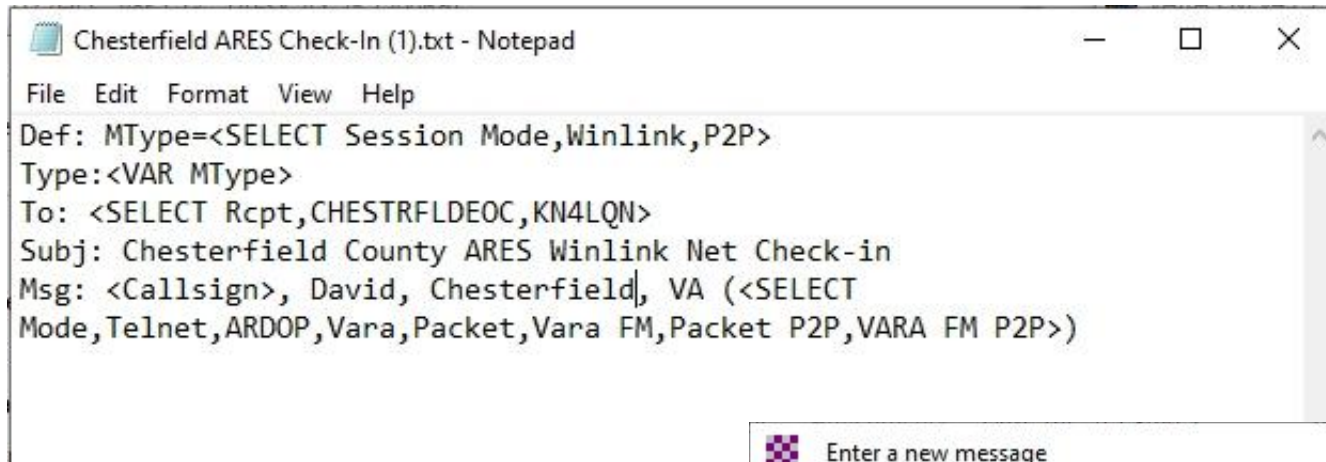
Cc:

Subject: Chesterfield County ARES Winlink Net Check-in

Attach:

KN4LQN, David, Winterpock, Chesterfield, VA ()

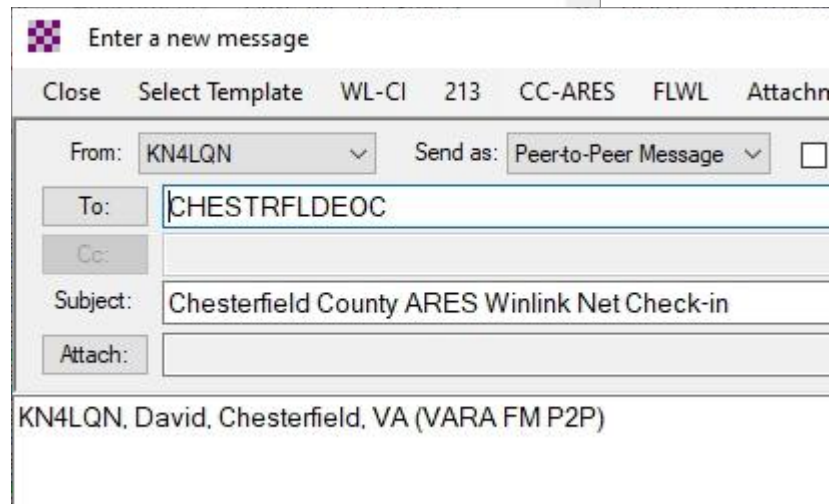
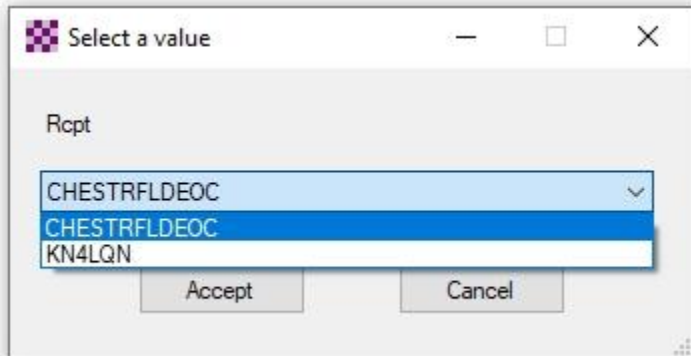





Chesterfield ARES Check-In (1).txt - Notepad

File Edit Format View Help

```
Def: MType=<SELECT Session Mode,Winlink,P2P>
Type:<VAR MType>
To: <SELECT Rcpt,CHESTRFLDEOC,KN4LQN>
Subj: Chesterfield County ARES Winlink Net Check-in
Msg: <Callsign>, David, Chesterfield, VA (<SELECT
Mode,Telnet,ARDOP,Vara,Packet,Vara FM,Packet P2P,VARA FM P2P>)
```



 ww weather test.txt - Notepad

File Edit Format View Help

Type: Winlink

Def: CarbonCopy=&lt;ASK Enter Carbon Copy Address:&gt;

Def: WXcondn=&lt;ASK Enter WX condition:&gt;

Def: Temp=&lt;ASK Enter Temp:&gt;

Def: Wind=&lt;ASK Enter Wind:&gt;

To: KN4LQN;

CC: &lt;VAR CarbonCopy&gt;;

Subject: Winlink Wednesday Check-In

Msg:

KN4LQN, David, Chesterfield, VA (VARA FM)

&lt;Time&gt;L, &lt;VAR WXcondn&gt;, &lt;VAR Temp&gt;dF, Wind &lt;VAR Wind&gt;



Enter a new message

Close Select Template WL-CI 213 CC-ARES FLWL A

From: KN4LQN Send as: Winlink Message

To: KN4LQN;

Cc: ;


Subject: Winlink Wednesday Check-In

Attach:

KN4LQN, David, Chesterfield, VA (VARA FM)

11:53:46L, mostly sunny, 56dF, Wind calm



 \*Winlink\_Thursday\_2022-03-10\_Exercise\_V2.txt - Notepad

File Edit Format View Help

Type: Winlink

Def: ClearingHouse = &lt;SELECT Choose Your Clearinghouse Delivery

Address:ET0-01=ET0-01,ET0-02=ET0-02,ET0-03=ET0-03,ET0-DX=ET0-DX&gt;

Def: CarbonCopy = &lt;ASK Enter Carbon Copy Address:&gt;

To: &lt;VAR ClearingHouse&gt;;

CC: &lt;VAR CarbonCopy&gt;;

Subject: Winlink Thursday Net Check-In - 2022-03-10

Def: LocationDescr=&lt;ASK Enter Location Description:&gt;

Def: Band=&lt;SELECT Choose Radio Band Operated:,-N/A--N/A-, 70cm=70cm, 2m=2m&gt;

Def: Radiomode=&lt;SELECT Choose Winlink Mode Used:, Telnet=TELNET, VARA FM=VARA FM&gt;

Def: AdditionalComments=&lt;ASK Enter Any Additional Comments:&gt;

Msg:

-eto01-

EmComm Training Organization Check-in

Status: [Exercise]

Date/Time: &lt;DateTime&gt;

Location: &lt;VAR LocationDescr&gt;

GPS Coordinates: LAT &lt;Latitude&gt; LON &lt;Longitude&gt;

Band Used: &lt;VAR Band&gt;

Session Type: &lt;VAR Radiomode&gt;

Call/Tactical Sender: &lt;Callsign&gt;

-----  
Comments:<VAR AdditionalComments>  
-----

Version: ET0-Exercise - Template 01



Select a value

Choose Your Clearinghouse Delivery Address:

ETO-01

Accept Cancel

Select a value

Choose Radio Band Operated:

-N/A-  
-N/A-  
70cm  
1.25m  
2m  
6m  
10m  
12m  
15m  
17m  
20m  
30m  
40m  
60m  
80m  
160m

Enter a new message

Close Select Template WL-CI 213 CC-ARES FLWL Att

From: KN4LQN Send as: Winlink Message

To: ETO-03;

Cc: :

Subject: Winlink Thursday Net Check-In - 2022-03-10

Attach:

-eto01-  
EmComm Training Organization Check-in  
Status: [Exercise]  
Date/Time: 2022-03-15 10:42:09  
Location: Chesterfield, VA  
GPS Coordinates: LAT 37.3542 LON -77.6250  
Band Used: 2m  
Session Type: Vara FM  
Call/Tactical Sender: KN4LQN

Comments:

Version: ETO-Exercise - Template 01



02/20/2024

# What is Winlink Wednesday?

KN4LQN



Greg Butler, KW6GB  
Founded August 2016

# Winlink Wednesday



David Elkins, KN4LQN  
Primary NCS October 2021

<https://winlinkwednesday.net>





- Weekly digital net
- RMS and P2P modes
- Started in August 2016
- In continuous operation 7 ½ years

## Purpose:

- Encourage regular Winlink use
- Expand operator skill
- Practice, practice, practice



<https://winlinkwednesday.net>

← → ↻ 🏠 winlinkwednesday.net ... ☆ 🔍 Search

**Solar-Terrestrial Data**  
 20 Feb 2024 2216 GMT  
 SFI: 153 SN: 50  
 A-Index: 6  
 K-Index: 1  
 X-Ray: C1.2  
 304A: 151.2 @ SEM  
**Calculated Conditions**  

Band	Day	Night
80m-40m:	Poor	Good
30m-20m:	Fair	Good
17m-15m:	Good	Good
12m-10m:	Good	Poor
Signal Noise:	S0-S1	

Click to Install Solar Data On your Web Site  
[Click Here](#)  
 Copyright Paul L. Herriman 2023

## Home of the Original



**QRZ call sign lookup:**

---

**Winlink Wednesday  
Current P2P dial frequency:**

**Off the Air**

**Current Week's  
[Net Reminder](#)**  
(updated for 02/21/2024)



## "All About" - detailed instructions

All About

# Winlink Wednesday

By David Elkins, KN4LQN – 27 October 2021

### Description

The original Winlink Wednesday is a weekly amateur radio digital net where check-ins are accomplished by using the Winlink (global email via amateur radio) system.

### Purpose

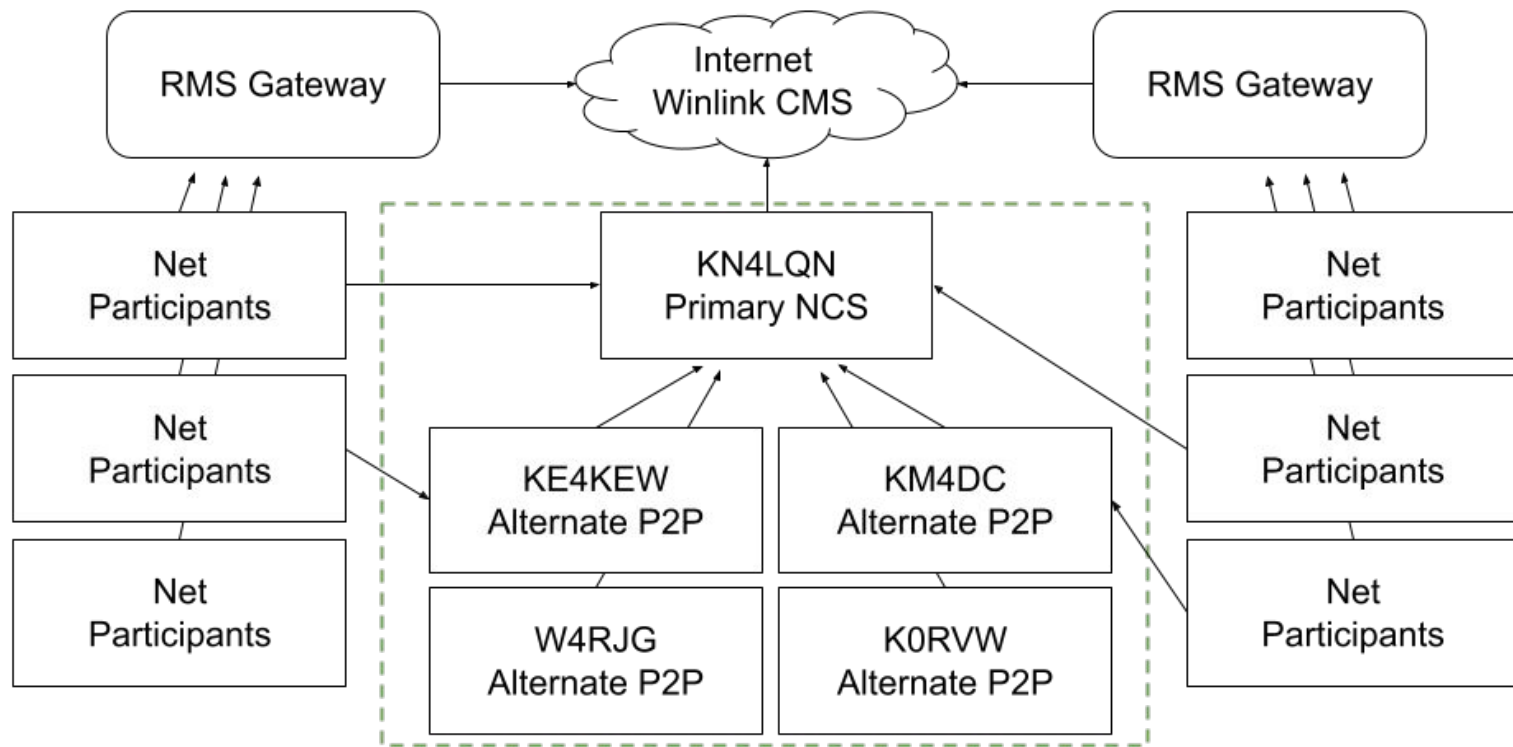
The primary purpose of Winlink Wednesday is to encourage the regular use of the Winlink system among amateur radio operators by providing an opportunity to expand their skills with Winlink, and to practice them on a regular basis. My purpose is to keep users sharp so that, if and when a served agency calls on us, we can perform confidently and professionally. Although previously aimed primarily at Virginia amateur radio operators, participation from outside of Virginia now comprises more than half of each week's check-ins, including nearly every US state and dozens of foreign countries (<https://tinyurl.com/WWhistorymap>).

Regular practice in the use of Winlink is heartily encouraged, in all of its various modes currently available to the end user, as well as any modes that may be developed by the Winlink Development Team (WDT) or acquired by the amateur in the future. These include, but are not limited to, Packet, ARDOP, VARA, VARA FM and PACTOR.

The website <https://winlinkwednesday.net> is devoted to all things Winlink Wednesday, and

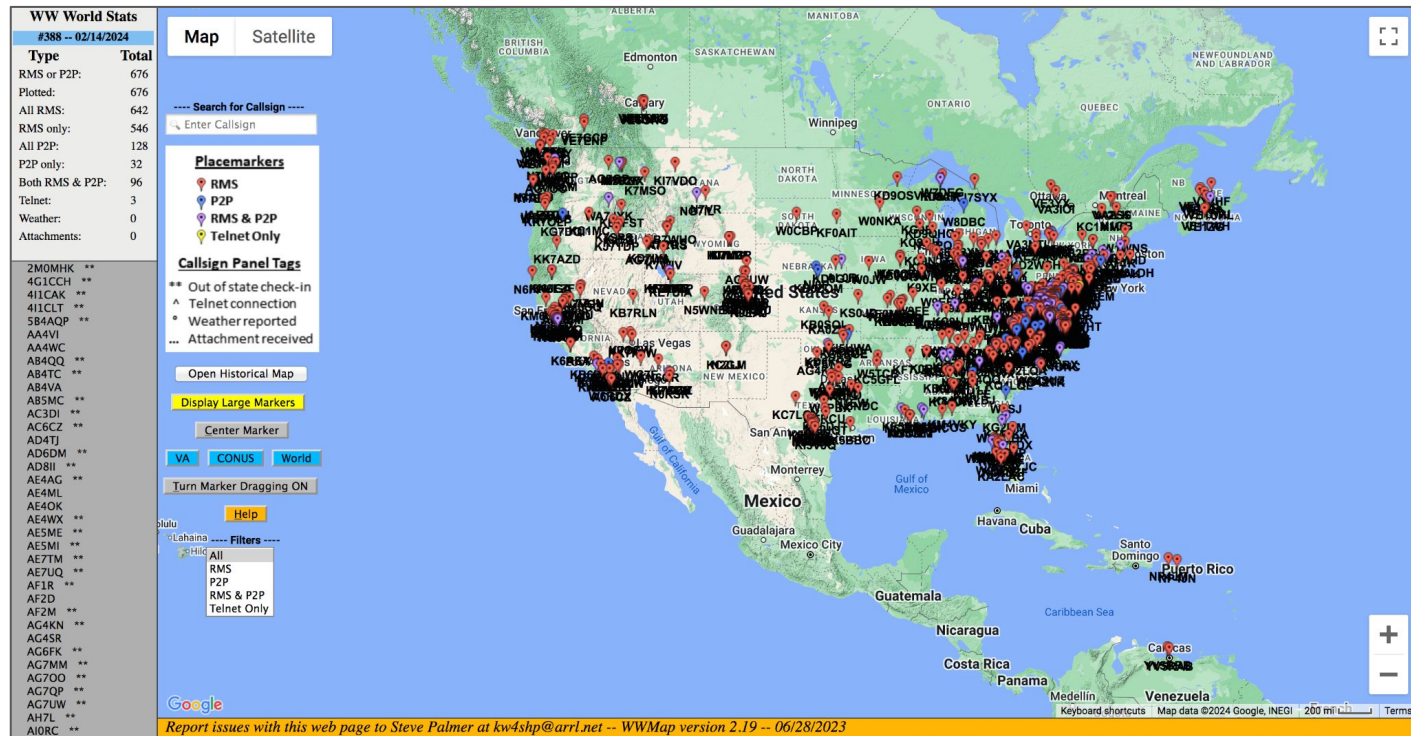


## Net operations



## Participation

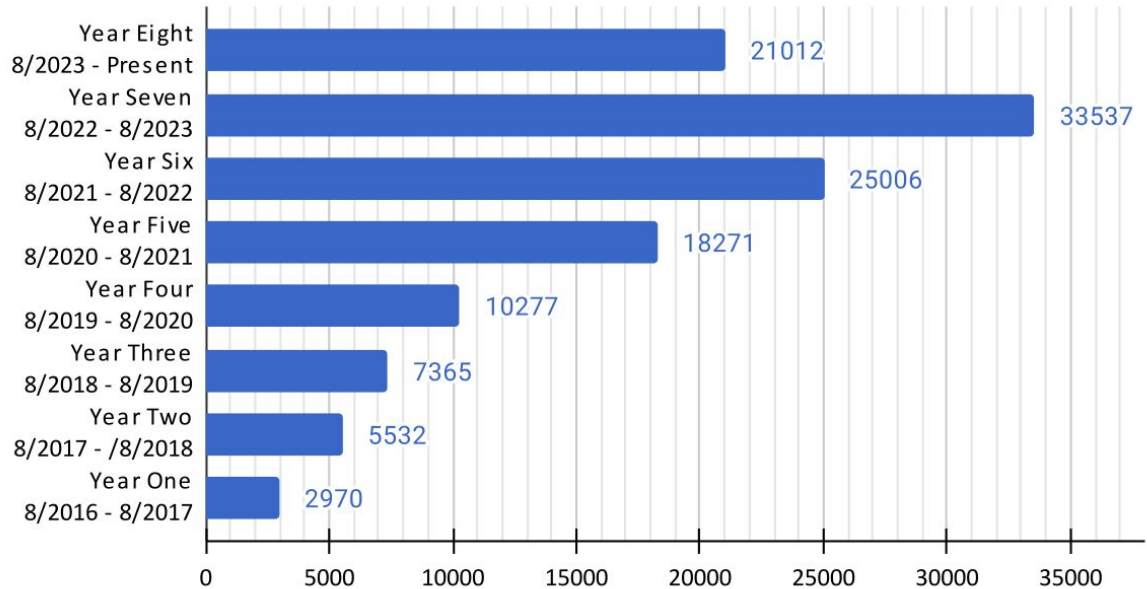
- Total Msgs:  
123,970+
- Participants:  
2,350+
- US States:  
50 + 4
- Countries:  
40



## Weekly Records:

- Total messages:  
935 (2/14/2024)
- Unique Participants  
705 (1/31/2024)
- Virginia Participants  
181 (3/8/2023)

## Total Winlink Wednesday Messages Received by Year (through February 14, 2024)



<http://winlinkwednesday.net/reminder.html>

Standard single-line check-in:

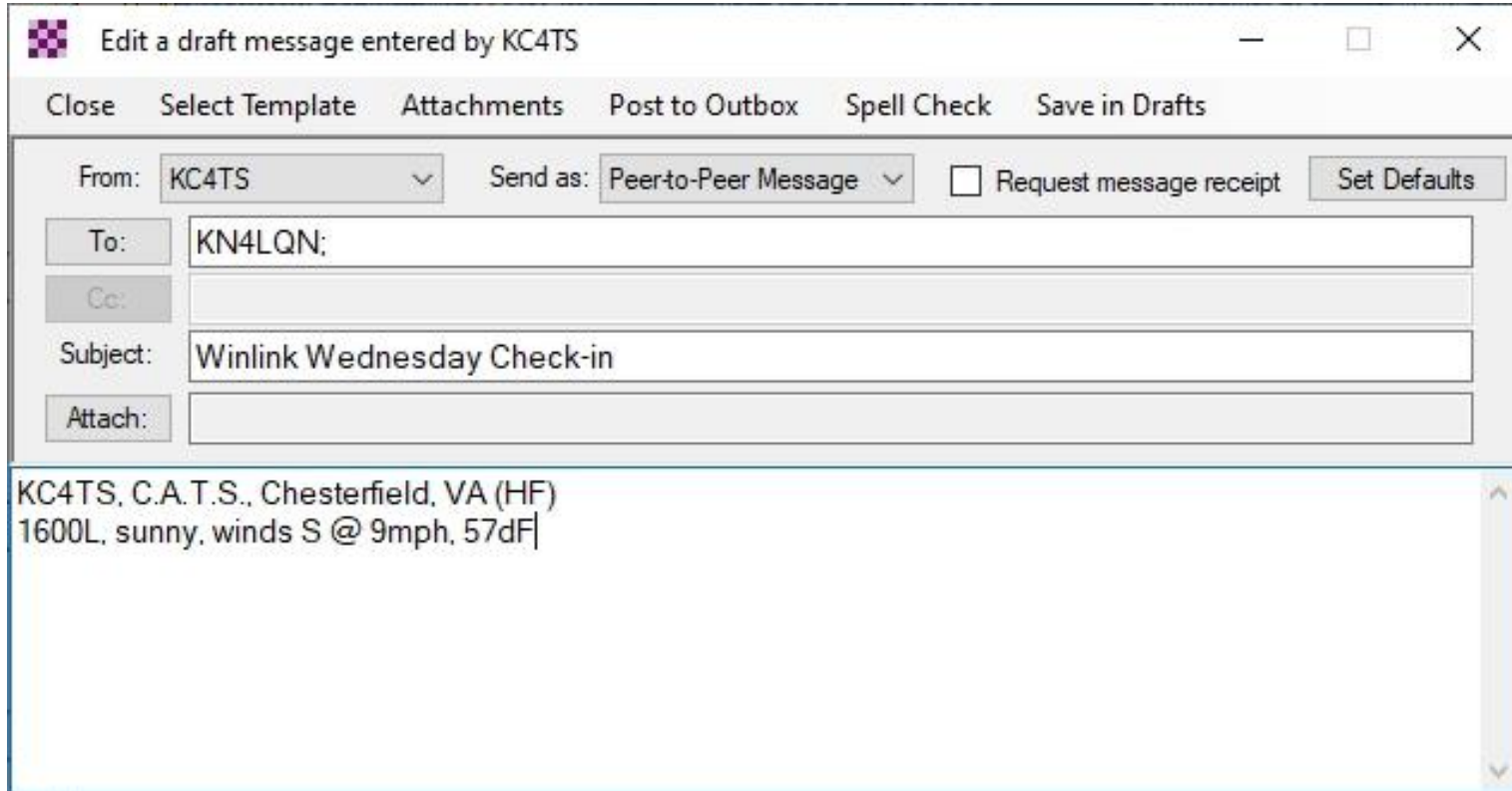
KW6GB, Greg, Front Royal, Warren, VA (HF)

1st Wed: optional weather snapshot

3rd Wed: ICS 213 form & attachment



## Standard check-in



The screenshot shows a software window titled "Edit a draft message entered by KC4TS". The window has a menu bar with the following items: "Close", "Select Template", "Attachments", "Post to Outbox", "Spell Check", and "Save in Drafts". Below the menu bar, the message fields are as follows:

- From:** KC4TS (dropdown menu)
- Send as:** Peer-to-Peer Message (dropdown menu)
- Request message receipt
- Set Defaults** (button)
- To:** KN4LQN;
- Cc:** (empty field)
- Subject:** Winlink Wednesday Check-in
- Attach:** (empty field)

The main body of the message contains the following text:

KC4TS, C.A.T.S., Chesterfield, VA (HF)  
1600L, sunny, winds S @ 9mph, 57dF





## ICS 213

General Message (ICS 213)		
<a href="#">Load ICS213 INITIAL Data</a>		<a href="#">Form Instructions</a>
1. Incident Name: <input type="text" value="Winlink Wednesday"/>		
2. To (Name/Position): <input type="text" value="Net Control"/>		
3. From (Name/Position): <input type="text" value="KW6GB, Net Participant"/>		
4. Subject: <input type="text" value="Winlink Wednesday Check-in"/>	5. Date: <input type="text" value="2021-10-27"/>	6. Time: <input type="text" value="23:23"/>
7. Message: <div style="border: 1px solid black; padding: 5px; min-height: 150px;"><p>KW6GB, Greg, Front Royal, Warren, VA (HF)</p></div>		
8. Approved by: <input type="text" value="G. Butler"/>	Position / Title: <input type="text" value="Net Participant"/>	
<a href="#">Save ICS213 INITIAL Data</a>	<input type="button" value="Submit"/>	<input type="button" value="Reset Form"/>



**\*\*\* Winlink Wednesday (Episode #283) \*\*\***  
**02/09/2022**

## Reminders & Results

- Webpage
- Winlink
- Facebook

Standard check-ins this week (no weather snapshots or attachments of any type, please).

WHO: All amateur radio operators

WHAT: Winlink Wednesday

WHEN: Wednesday, 9 February 2022, 0000-2359 EST (UTC: 0500 Wed - 0459 Thu)

HOW: This net will accept check-ins via Winlink only. Send a check-in via any RMS during the timeframe above, or participate in one or both of the P2P sessions below.

Please do not use a "Telnet Winlink" connection (which defeats the purpose of Winlink). The goal is to have the message leave your station via RF.

Please remember to use the correct format (check-in message on a SINGLE LINE) for check-in, as shown below, over an RF connection.

**To:** KN4LQN (or alternate NCS, as appropriate)

**Subject:** Winlink Wednesday Check-In

**Message body:** call sign, first name, city or town, county, state (HF or VHF, etc.)

<https://www.facebook.com/groups/VirginiaEmComm/>



## Roster

## Winlink Wednesday Net Report and Roster for 2 February 2022 (Episode #282)

# Winlink Wednesday

## Greetings,

Our next net will be held on Wednesday, 9 February 2022. I will distribute a reminder on Tuesday. Please read it carefully. KN4LQN WILL BE PRIMARY NET CONTROL.

The current week's net report and roster is now available at:  
<https://winlinkwednesday.net>

The interactive map of the current week's participants is available at:  
<https://tinyurl.com/WWcurrentmap> (also linked at <https://winlinkwednesday.net>)

## SUBNET RESULTS:

Winlink Wednesday Local VHF P2P Subnet results:

- Blue Ridge (NCS: Wayne, KM4YC, Fauquier County): 11 participants, including NCS.
- Central VA (NCS: Dave, W4IIA [as W4IIA-2], Henrico County): 13 participants, including NCS.
- Hampton Roads (NCS: Frank, KN4DUF, Virginia Beach City): 10 participants, including NCS.

Winlink Wednesday PACTOR P2P Subnet results:

- Statewide (NCS: Randy, KE4RL, Wythe County): xx participants, NOT including NCS.

If you would like to participate in any of these subnets, contact the NCS directly. If you would like to host a Winlink Wednesday VHF P2P Subnet in your area, contact me for details on how to get started.

## NET NOTES:

- 1.) Yesterday, Winlink Wednesday received 497 (new record!) total messages from 387 unique participants worldwide, including 148 Virginia stations.

## WINLINK WEDNESDAY CHECK-INS, 26 January 2022 (Episode #281)

Total unique participants = 385

\*\*\*\*\*  
 THE FOLLOWING IS THE NET CHECK-IN LIST AS RECEIVED  
 \*\*\*\*\*

- KN4LQN, David, Chesterfield, VA (HF) (Net Control)  
 o ZL1HAZ, Alec, Auckland, New Zealand (HF)  
 o N1EW, Ed, Chandler, Van Zandt, Texas (VARA HF-K0SI)  
 o K8JTK, Jeff, Westlake, Cuyahoga, OH (HF Vera)  
 o KI5HHK, Lance, Austin, Travis County, Texas, VHF

- KN4OYB, Larry, Ruckersville, Greene, VA, HF VARA RMS  
 WO4X, Jim, Lexington, Rockbridge, VA, HF  
 WO4X, Jim, Lexington, Rockbridge, VA, VHF  
 AE4ML, Michael, Spotsylvania VA, (VHF) [Z666T2GPHWV]  
 o 9A3ETW, Tomas, Rijeka, Croatia



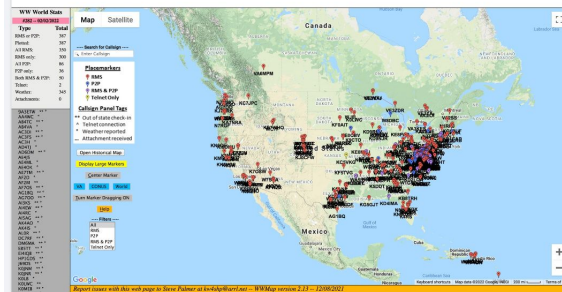
## David Elkins ▸ Virginia EmComm

Admin · February 3 at 1:29 PM · 🌐

Yesterday, Winlink Wednesday received 497 (new record!) total messages from 387 unique participants worldwide, including 148 Virginia stations. Interactive map at <https://tinyurl.com/WWcurrentmap>.

There were 47 P2P connections during the morning session (including those to Alternate NCSs), and 53 P2P connections during the evening session.

The Healthcare Emergency Amateur Radio Team (WN4HRT) earned its 200-Week endorsement, signifying (of course) 200 weeks of participation. HE...  
**See more**

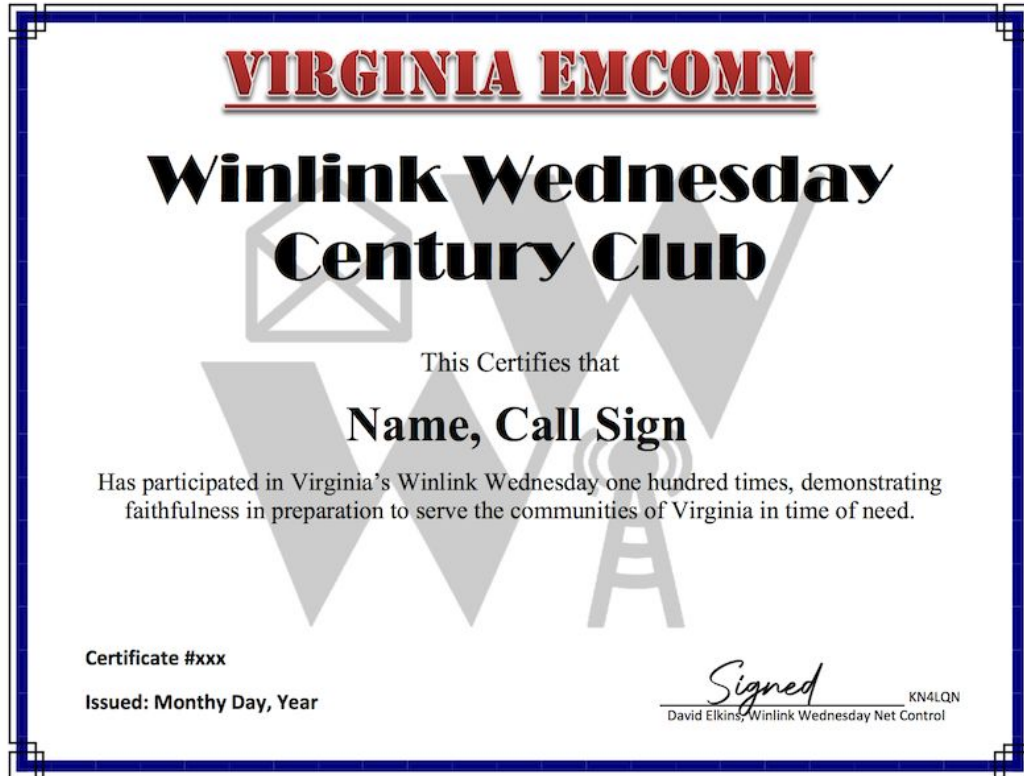


# Winlink Wednesday Century Club (WWCC)

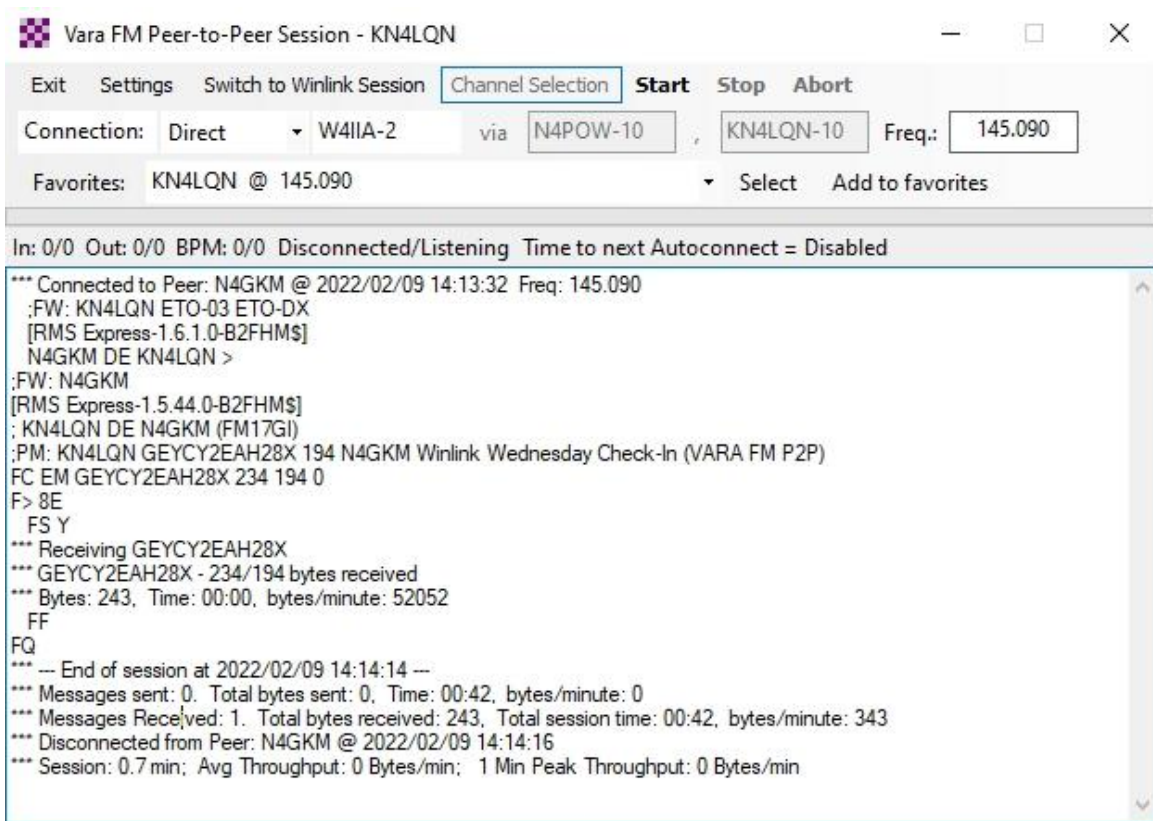
100-weeks: 280

200-weeks: 80

300-weeks: 29



# Operating a VHF Subnet or RMS Gateway



The screenshot shows the 'Vara FM Peer-to-Peer Session - KN4LQN' window. The interface includes a menu bar with 'Exit', 'Settings', 'Switch to Winlink Session', 'Channel Selection', 'Start', 'Stop', and 'Abort'. The 'Channel Selection' menu is open, showing 'Connection: Direct' (with a dropdown arrow), 'W4IIA-2' (with a dropdown arrow), 'via N4POW-10', and 'KN4LQN-10'. The 'Freq.' field is set to '145.090'. Below the menu bar, there are 'Favorites' listed as 'KN4LQN @ 145.090' with 'Select' and 'Add to favorites' buttons. The main window displays session statistics: 'In: 0/0 Out: 0/0 BPM: 0/0 Disconnected/Listening Time to next Autoconnect = Disabled'. The log window shows the following text:

```
*** Connected to Peer: N4GKM @ 2022/02/09 14:13:32 Freq: 145.090
;FW: KN4LQN ETO-03 ETO-DX
[RMS Express-1.6.1.0-B2FHMS]
N4GKM DE KN4LQN >
;FW: N4GKM
[RMS Express-1.5.44.0-B2FHMS]
; KN4LQN DE N4GKM (FM17GI)
;PM: KN4LQN GEYCY2EAH28X 194 N4GKM Winlink Wednesday Check-In (VARA FM P2P)
FC EM GEYCY2EAH28X 234 194 0
F> 8E
FS Y
*** Receiving GEYCY2EAH28X
*** GEYCY2EAH28X - 234/194 bytes received
*** Bytes: 243, Time: 00:00, bytes/minute: 52052
FF
FQ
*** -- End of session at 2022/02/09 14:14:14 --
*** Messages sent: 0. Total bytes sent: 0, Time: 00:42, bytes/minute: 0
*** Messages Received: 1. Total bytes received: 243, Total session time: 00:42, bytes/minute: 343
*** Disconnected from Peer: N4GKM @ 2022/02/09 14:14:16
*** Session: 0.7 min; Avg Throughput: 0 Bytes/min; 1 Min Peak Throughput: 0 Bytes/min
```



Contact me with any questions about Winlink  
or the Winlink Wednesday Net:

David Elkins

KN4LQN

kn4lqn@arrl.net

