Winlink Basics Carl Howe, WG1V, Stow ARES wg1v.org

Slides and documents available at <u>http://wg1v.org/</u>

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Winlink is just a simple, internet-based email system augmented with radio links

Slides and documents available at http://wg1v.org/

Attachments M	love To: Saved Iten	ns	- Delet	e Open Session:	Telnet Winlink	✓ Logs	Help
≿ 🛃 🥔 ≫	- 📀						
						s	
Date/ Time	Message ID	Size	Source	Sender	Recipient	Subject	
2023/04/2	0KF4UW9	230	SMTP	SMTP:carl	WG1V	Re: Test	

sage ID: 0KF4UW970BGY e: 2023/04/26 14:57 n: carlhowe@gmail.com WG1V rce: SMTP vnloaded-from: Telnet:cms.winlink.org ject: Re: Test

it!

n Apr 26, 2023, at 10:56 AM, WG1V@winlink.org wrote:

nis is a test.



Requirements

- Download the Winlink CMS Software from winlink.org
- Register your callsign and password
- Whitelist any internet addresses you wish to receive traffic from

Slides and documents available at http://wg1v.org/

Stow and Marlborough ARES setups should already have their callsigns and passwords registered

The Winlink workflow

- 1. Create emails offline
- 2. Connect to a server to send and receive emails
- 3. Read emails offline
- 4. Minimize extraneous content

Slides and documents available at <u>http://wg1v.org/</u>

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Creating and Posting Emails

1. Create and Post an Email

- 1. Click on the Message menu on the Winlink home screen
- 2. Select New Message from the Message pull-down window
- 3. Address your message to callsigns and/or internet addresses
- 4. Fill in the message contents
- 5. Click Post to Outbox to queue your message for sending.

WG1V - Setting	s Message Ottachments Moy ed I	tems	🚽 Delet	e Op
🗋 i 🕼 🕼 🕼 i 🕂	New Message			
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Inbox (0 unread)	Forward	28	Source	Sei
Read Items (0)	Forward without change	230	SMTP	SMI
Outbox (1)	Acknowledge receipt			
Sencilents (1) Saved Items (0)	Save message as			
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Personal Folders				
	Template manager			
	Template settings			
	Set favorite templates			
dist of moldane.	HTML Forms			
Global Folders	Import form xml file			
	Generate ICS-309 Communication Log			
Contacts	Generate maps and CSV files for forms			
	Export messages			
	Import messages			
	Archive messages			
	Downloaded-from: Telnet:cm	is.winli	nk.org	
	Subject: De: Test		\sim	

1. Create and Post an Email

- 1. Click on the Message menu on the Winlink home screen
- 2. Select New Message from the Message pull-down window
- 3. Address your message to callsigns and/or internet addresses
- 4. Fill in the message contents
- 5. Click *Post to Outbox* to queue your message for sending.

Enter a new message	
Post to Outbox Select Template Attachments Spell Check Save in Drafts Close	
From: WG1V 🔹 Send as: Winlink Message 💌 🗖 Request message receipt Set Defaults	
Io: W1STO;	
⊆c: jm@carlhowe.com;	
Subject: New Winlink message	
<u>A</u> ttach:	
Here's a new Winlink message for you.	
Carl, WG1V	



1.1 Create an ICS-213 Form

- 1. From the New Message window, click on Select Template from the menu bar
- 2. Select ICS213 General Message.txt from the list of ICS USA Forms (you may have to click the plus sign to next to ICS USA Forms).
- 3. The ICS213 form will open in your web browser. Fill out all the fields and click *Submit* at the bottom.
- 4. With the ICS213 data now in the messaging window, click Post to Outbox

ost to Outbox Select 1	Template Spell Check Save in Drafts Close
From: WG1V	Sen. Winlink Message 💌 🛛 Request message receipt Set Defaults
<u>I</u> o:	
<u>C</u> c:	
Subject:	Template Manager
Attach:	Select Close Add Remove Edit
Decount	Standard Templates (version 1.0.228.0)
	ARC Forms
	CA STATE Forms
	E HI STATE forms
	HICS Forms
	TARU Forms
	🚊 IS USA Forms
	ICS201 Incident Briefing.txt
	ICS202 Incident Objectives.txt
	ICS203 Organizational Assignment.txt
	ICS204 Assignment List.txt
	ICS205 Radio Plan.txt
	ICS205A Communications List.txt
	ICS206 Medical Plan.txt
	ICS208 Sarety Message Plan.txt
	ICS213 General Message tyt
	ressa
	ICS214A Individual Activity Log.txt
	ICS215A Incident Safety Analysis.txt
	ICS217A Communications Worksheet.txt
	ICS309 Communications Log.txt
	MAPPING-GIS FORMS
	OR STATE Forms
	E RADIOGRAM & RRI Forms
	SHARES Forms
	TX STATE Forms
	±-USGS
	WA STATE Forms
	WEATHER Forms



1.1 Create an ICS-213 Form

- 1.From the New Message window, click on Select Template from the menu bar
- 2.Select ICS213 General Message.txt from the list of ICS USA Forms (you may have to click the plus sign to next to ICS USA Forms).
- 3.The ICS213 form will open in your web browser. Fill out all the fields and click *Submit* at the bottom.
- 4.With the ICS213 data now in the messaging window, click Post to Outbox

	General Message (ICS 213)		
	Load ICS213 INITIAL Data	Form I	nstruction
1. Incident Name: Stow ARES Winlink Training			
2. To (Name/Position): Bob Glorioso, Stow ARES E	c		
3. From (Name/Position): Carl Howe			
4. Subject: Winlink Training		5. Date: 2023-04-27	6. Time
7. Message:			1.2 1.20
I think we're ready for the training on May 6.			
Carl			
		3	
9 Approved by	Desition / Titles		
8. Approved by:	Position / Title:		



1.1 Create an ICS-213 Form

- 1. From the New Message window, click on Select Template from the menu bar
- 2. Select ICS213 General Message.txt from the list of ICS USA Forms (you may have to click the plus sign to next to ICS USA Forms).
- 3. The ICS213 form will open in your web browser. Fill out all the fields and click *Submit* at the bottom.
- 4. With the ICS213 data now in the messaging window, click *Post to Outbox*



Slides and documents available at http://wg1v.org/

Outbox :ate Attachments Spell Check Save in Drafts Close
WG1V Send as: Winlink Message Request message receipt Set Defaults
W1IS;
W1STO;
213-Stow ARES Winlink Training-Winlink Training - 2023-04-27 13:55
RMS_Express_Form_ICS213_Initial_Viewer.xml;

GENERAL MESSAGE (ICS 213)

Incident Name: Stow ARES Winlink Training
 To (Name and Position): Bob Glorioso, Stow ARES EC
 From (Name and Position): Carl Howe
 Subject: Winlink Training
 Date: 2023-04-27
 Time: 13:55
 Message:

I think we're ready for the training on May 6.

 Approved by: Carl Position/Title: Self



Connecting to a Server

2. Connect to a Server

Connecting to a server requires two separate steps:

- Selecting a communications protocol and modem. Possibilities include:
 - Telnet over the internet
 - VARA modem over HF radio
 - ARDOP modem over HF radio
 - Packet over VHF radio
 - More
- Selecting a server that uses that protocol and modem

Slides and documents available at <u>http://wg1v.org/</u>

2.1 Connecting using Telnet

- 1. Choose *Telnet Winlink* from the Open Session pull down menu
- 2. Click Open Session
- 3. Click Start in the new session window

The great thing about telnet is that you only need an internet connection to use it.

WG1V No active session...

Inbox (0 unread) Read Items (0) Outbox (0) Sent Items (1) Saved Items (0)

Slides and documents available at <u>http://wg1v.org/</u>

```
Open Session:
                            Attachments Move To:
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                                                                        Telnet Winlink
                                                       T
System Folders
                           Date/
                                      Message
                                                                                   Subject
                                                 Size
                                                      Source Sender
                                                                        Recipient
                           Time
                                      ID
                                      0KF4UW9
                                                  230
                                                                                   Re: Test
                                                             SMTP:car
                                                                        WG1V
                                                       SMTP.
                           3
               Exit Setting
                          Start
                                      Time to next Autoconnect = Disabled
               *** Connecting to a CMS...
               *** Connected to CMS-SSL at 2023/05/05 19:59:18
               [WL2K-5.0-B2FWIHJM$]
               :PQ: 30178167
               CMS>
                :FW: WG1V
                [RMS Express-1.7.6.0-B2FHM$]
                :PR: 38891318
                ; WL2K DE WG1V (FN42FK)
                FF
               FQ
               *** --- End of session with WL2K at 2023/05/05 19:59:18 ---
               *** Messages sent: 0. Total bytes sent: 0, Time: 00:00, bytes/minute: 0
               *** Messages Received: 0. Total bytes received: 0, Total session time:
              00:00, bytes/minute: 0
               *** Disconnected at 2023/05/05 19:59:18
```



2.2 Using Radio Modems

Requires 2 connections

- 1. A connection to the audio ports on your radio
- 2. A control port to control transmission, push-to-talk, frequency, and mode

a single USB port.

These connections should be already configured at both the Stow and Marlborough fire stations.

Slides and documents available at <u>http://wg1v.org/</u>

Modern rigs such as the Icom IC-7300 combine these two connections into

3 Steps to a Modem Connection

- 1. Launching the session
- 2. Choosing a server
- 3. Starting the transmission itself

Common Radio Modems

Common modem types:

- at reduced speed.
- ARDOP: a free and open source HF modem.

Many content management servers support both modem types as well as PACTOR and a few others.

Slides and documents available at <u>http://wg1v.org/</u>

• VARA: a commercial, high-performance, weak-signal modem made by EA5HVK. Versions are available for both HF and VHF. A free version works

2.3.1 Starting a VARA Session 2 Open Session: Message Attachments Move To: Delete Vara HF Winlink -Logs /lav 6 Exerci-×Ι ->>- (⊘ Forecast Auto-connect Next chan. Start Stop Abort nnel Selection Dial Freq. (kHz): 10146.500 Bearing: 180 Quality: 94 Add to favorites Remove from favorites

Select

nnected

- 1. Choose Vara HF Winlink from the Open Session pull down menu
- 2. Click Open Session
- 3. The VARA session and UI windows open

WG1V								
	1	1	Ø					
No	active	e ses	sio	n.				
8	Vara H	F Winl	ink Se	ession - W	/G1V			

	VVII III IK	00331011		
Exit Settir	ngs Si	witch to Pe	er-to-Peer	Cha
KF1D		Center	Freq. (kHz)	10
Favorites:				
Channel Free	ln: 0/0	Out: 0/0	BPM: 0/0	Disco
*** Launahing V		IC.		

Launching VARA TNC

* Successfully connected to VARA TNC.

*** Vara signal bandwidth is 2300 Hz.

*** Using Icom 7100, COM3, 19200 baud

*** Ready

*** This is a registered version of Vara TNC that can operate at full speed.









2.3.1 Starting a VARA Session (cont.)

Troubleshooting:

If you don't see the VARA UI window, you may need to click on the VARA icon in the Windows application tray.

If the waterfall shows no signal, you may need to click *Settings* > *Soundcard* and select the USB ports for input and output

🕵 VAR	A HF v4.7	7.6 W	/G1V	—		\times	
Settings	; View	Log*	Monitor	Help			
	1.0 0.8 0.6		0	1.0 SoundCard 0.8			×
ق م				Device Input			
	0.4			Microphone (USB Audio CODEC)			
	0.2			Device Output Speakers (USB Audio CODEC)			
A CONTRACTOR				Tune Drive level:	Z		
Au	idio Input:	-31 dB		Press Tune and set the Drive Level for ALC=1/3			-
				USB-D FIL2 50 11:47 RF PWR			
BX	Discon	nected		14.05/00 P.AMP1 AGC-F AN NB S 1 3 5 7 9 +20 +40 +60dB T 100%	BU	SY 🔵	
SS Va	ara HF W	inlink S	ession		_		×
Exit	Setting	s Swi	tch to P	OMP 0 5 10 15 20 dB 10 16V	Stop	Abort	
	KF1D		Center	SWR 1 15 2 25 3 00 TEMP-			
Favo	orites:			ID 0 5 10 15 20 254			
Chann	el Free II	n: 0/0 C	Out: 0/0				
*** Laur Succ Vara Usin Read	nching VA cessfully c signal ba g Manual, dy	RA TNC onnecte ndwidth NONE,	d to VA is 2300 19200 I	Close			
This	is a regist	ered ven	sion of Vara	The that can operate at full speed.			

2.3.2 Ways to Select A Server

- recommended, but it can be done)
- 2. Select your server from a list of servers provided by VARA
- 3. Select your server from a map

PLEASE NOTE: In the process of displaying this window, Winlink may ask if you wish to refresh the server list and path quality estimates. If you are in the middle of an emergency or exercise, YOU DO NOT WANT TO DO THIS. Updating these figures will both require a significant amount of internet or radio bandwidth, and you will be unable to do anything until it completes.

Slides and documents available at <u>http://wg1v.org/</u>

1. Type in the callsign and frequencies into the VARA session window (not

2.3.2 Select a Server from a List

🕵 Vara HF	Winlink Session - WG1V						-	
Exit Setti	ngs Switch to Peer-to-Peer	Channel Selection	lap Forecast	Auto-connect	Next chan.	Start	Stop	Abo
KF1D	Center Freq. (kHz):	10148.000 Dia	l Freq. (kHz):	10146.500 Bearin	g: 180 Qual	ity: 94		
Favorites:		 Select 	Add to favorite	es Remove from	favorites			
Channel Free	In: 0/0 Out: 0/0 BPM: 0/0 E	Disconnected						

- * Launching VARA TNC *** Successfully connected to VARA TNC.
- *** Vara signal bandwidth is 2300 Hz.
- *** Using Icom 7100, COM3, 19200 baud
- *** Ready
- *** This is a registered version of Vara TNC that can operate at full speed.
 - 1. Click Channel Selection in the VARA session window
 - 2. Double-click on the server you want to connect to



2.3.2 Select a Server from a Map

🔀 Vara HF	Winlink Session - WG1V				_	
Exit Settir KF1D	ngs Switch to Peer-to-Peer Center Freq. (kHz):	Channel Selection Map 10148.000 Dial Freq.	Forecast Auto-con (kHz): 10146.500	nect Next chan. Bearing: 180 Quali	Start Stop ity: 94	Abort
Favorites:		 Select Add 	to favorites Remove	from favorites		
Channel Free	In: 0/0 Out: 0/0 BPM: 0/0	Disconnected				
	(1.D.) THO					
Launching V	ARA INC					
Successfully	connected to VARA TNC.					
Vara signal b	bandwidth is 2300 Hz.					

- *** Using Icom 7100, COM3, 19200 baud
- *** Ready
- *** This is a registered version of Vara TNC that can operate at full speed.

- 1. Click *Map* in the VARA session window
- Double-click on the green server marker you want to connect to



K HF Channel Selector										
Exit Sele	ct Update \	/ia Internet U	lpdate Via Radio	Map	Forecast	SFI All RM	SFI AII RMS -			
Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate	1
W1EO	1845.000	V500	FN42IM	00-23	PUBLIC	14	066	100	100	
K1EHZ	1850.000	V500	FN42EX	00-23	PUBLIC	37	353	100	100	
W1EO	3597.900	V2300	FN42IM	00-23	PUBLIC	14	066	99	99	
K1EHZ	3578.500	V500	FN42EX	00-23	PUBLIC	37	353	99	99	
K1EHZ	3596.500	V2300	FN42EX	00-23	PUBLIC	37	353	99	99	
K1EHZ	7098.500	V500	FN42EX	00-23	PUBLIC	37	353	96	96	
K1EHZ	7103.800	V2300	FN42EX	00-23	PUBLIC	37	353	96	96	
KF1D	7101.300	V2300	FN42FA	00-23	PUBLIC	29	180	96	96	
W1EO	7102.500	V2300	FN42IM	00-23	PUBLIC	14	066	96	96	
W1EO	10131.800	V500	FN42IM	00-23	PUBLIC	14	066	94	94	
KF1D	10148.000	V2300	FN42FA	00-23	PUBLIC	29	180	94	94	
W1EO	14104.200	V2300	FN42IM	00-23	PUBLIC	14	066	92	92	
W1EO	21094.500	V2300	FN42IM	00-23	PUBLIC	14	066	87	87	
WA3MEZ	7101.200	V2300	FM19OJ	00-23	PUBLIC	345	234	73	51	
N3MEL-11	7082.000	V500	FM29DX	15-19	PUBLIC	275	233	71	51	
W3TBG	7098.700	V500	FM28FP	00-23	PUBLIC	336	220	73	51	
KB3PCY	7107.250	V500	FM29EV	00-23	PUBLIC	275	232	71	51	L

But What Server Should I Choose?

Choose whatever server you believe will provide the best connection based on current conditions and equipment!

However, In case of an actual emergency where the internet is not available locally, you should choose a server that is outside the area of internet disruption. This is one of the situations where having long-distance HF links can be very important.

2.3.3 Starting	V
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🕺 Vara HF	Winlink Session - WG1V
Exit Settir	ngs Switch to Peer-to-Peer Channel Selection Map Forecast Auto-connect Next chan. Start
W1EO	Center Freq. (kHz): 7102.500 Dial Freq. (kHz): 7101.000 Bearing: 066 Quality: 90
Favorites:	 Select Add to favorites Remove from favorites
Channel Free	In: 0/0 Out: 0/0 BPM: 0/0 Disconnected

2

- 1. Click Start in the VARA session window.
- 2. VARA should begin keying the transmitter with connection requests to the server
- 3. The VARA UI screen displays performance metrics once a connection gets made.
- 4. The session will eventually time out or complete.

Slides and documents available at http://wg1v.org/

ARA transmission





2.3.4 Connecting Using an ARDOP Session

ess 1.7.6.0 -	WG1V	—
 Set 	ttings Message Attachments Move To: Saved Items 🗸 Delete Open Session: Ardop Winlink	Logs
	$+ \oplus \blacksquare \geq $	
session.		
Folders	Date/Time Vessage IP Size Source Sender Recipient Subject	
)		
1	Anders Wielink Session WC1V	
<u>, </u>	Ardop Winlink Session - WGTV	
2)	Exit Settings Switch to Peer-to-Pee Channel Selection Map Forecast Best chan. Next chan Start top	Abort
	K1EHZ Center Freq. (kHz): /103.800 Dial Freq. (kHz): /102.300 Bearing: 353 Quality: 101	1
Folders	Favorites: KF1D @ 7101.300 [2000] (96) - Select Add to favorites Remove from favorites	
	Channel Busy In: 0/0 Out: 0/0 BPM: 0/0 Disconnected	
	*** ARDOP Winlink session	
	*** Waiting for TNC to initialize	
olders	*** Ready to start calling.	
acts		
	ARDOP_Win Virtual TNC Ver: 1.0.2.5	
	File Graphics Send Abort Logs Help Channel Busy	
	Rcv Level: Offset: State: DISC	
	Rcv Frame:	
	Xmt Frame:	
1	Quality: -1200 CF: 1.5 KHz +1200 Host: TCPIP on port 8200,8201	





Slides and documents available at <u>http://wg1v.org/</u>

Reading Emails

3. Reading Messages

Image: Second	•••
Image: System Folders No active session. 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 Contacts	WG1V -
No active session. 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 Contacts	🗋 i 🕼 🏠 🏠 🏠
System Folders Inbox (0 unread) Read Items (0) Outbox (0) Sent Items (0) Deleted Items (0) Drafts (0) Personal Folders Global Folders Contacts	No active session.
Inbox (0 unread) Read Items (0) Outbox (0) Sent Items (0) Deleted Items (0) Drafts (0) Personal Folders Global Folders	System Folders
Personal Folders Global Folders Contacts	Inbox (0 unread) Read Items (0) Outbox (0) Sent Items (0) Saved Items (0) Deleted Items (0) Drafts (0)
Global Folders Contacts	Personal Folders
Global Folders Contacts	
	Global Folders
	Contacts

Reading emails works like most common email clients.

- New messages appear in your inbox and can be read in the preview pane.
- 2. Double-click on a message to show it in a new window.
- 3. Opening a formatted message will display it in your browser

Slides and documents available at http://wg1v.org/

	Winlink Express 1.7.6.0 - WG1V											
Settings	s Message	Attachme	nts Move To:	Saved Ite	ems	👻 Delete	Open	Session:	Telnet V	Vinlink	-	L
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	Date/Tim	e – M	lessage ID	Size	Source	Sender		Recipient		Subject		



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3. Reading Messages

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WG1V -	
〕 € € ∅ ≙	Ê
No active session.	
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	
Contacts	

Winlink Express 1.7.6.0 - WG1V									
Settings	Message	Attachments	Move To:	Saved Items	▼ Delete	Open Session:	Telnet Winlink	•	Logs
▶ 🕂 🌐) 🗖 🗐	ک 📔 🗲	≫ 🔞						

Date/Time 👻	Message ID	Size	Source	Sender	Recipie	int	Subject
2023/05/04 16:32	ECWOCP908761	238	SMTP	SMTP:carlhowe	WG1V		Test from the interne
		• • •	ECW	OCP908761 - T	est from	the inte	rnet
		Close	Print	View Attachments	Reply	Reply All	
Message ID: ECWOO Date: 2023/05/04 16:3 From: carlhowe@gm: To: WG1V Source: SMTP Downloaded-from: Te Subject: Test from the This is a message I s Carl	CP9O8761 32 ail.com einternet sent from the ir	Date: 2 From: 0 To: VV0 Source Downlo Subjec This is wg1v@	2023/05 carlhov 31V s: SMT baded-f t: Test a mes	5/04 16:32 ve@gmail.com from: Telnet:cms from the internet sage I sent from k.org <mailto:wg< td=""><td>s.winlink t the inte 1v@win</td><td>org: ernet to hlink.org</td><td></td></mailto:wg<>	s.winlink t the inte 1v@win	org: ernet to hlink.org	



3. Reading Messages

Reading emails works like most common email clients.

- New messages appear in your inbox and can be read in the preview pane.
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tial View 🗙	+		`
i File C:/RMS%20E	Express/WG1V/Temp/ICS213_Initial_Viewer.html		L
	General Message (ICS 21	3)	
ame: Test			
Position): Carl Howe			
ne/Position): W1STO sta	ation		
iis is a ICS-213 test		5. Date: 2023-05-04	6. Time: 13:15
to show what received	I ICS-213s look like.		
oy: Carl Howe	Position / Title: Amateur Radio Operator		
ate a reply to this ICS213	You can print this page with your browser, if you need to obtain a wr	itten response to enter.	
y:	Position / Title:	Date /	Time:



But Don't Delete ICS-213s!

service and governmental personnel

As such, they should be preserved and not deleted

Best practice is to store them in a folder until they can be archived

Slides and documents available at <u>http://wg1v.org/</u>

- Typically ICS-213 messages are used for formal communications with public

Creating a Folder

- 000 WG1V Se No active session... System Folders Inbox (0 unread) Read Items (0) Outbox (0) Sent Items (1) Saved Items (0) Deleted Items (1) Personal Folders Global Folders Contacts
- Right click in the Personal Folders pane of the main Winlink Express window
- 2. Type in the name of the folder you'd like to create and click *Update*.

			W	inlink E	xpress 1.7	7.6.0 - WG1V			
ettings l	Message	Attachments N	Nove To: Saved Ite	ms	▼ Delet	e Open Session:	Vara HF Winlink	👻 Logs H	elp
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		Date/ Time	Message ID	Size	Source	Sender	Recipient	Subject	
		2023/04/2	0KF4UW9	230	SMTP	SMTP:carl	WG1V	Re: Test	
	Mes Date Fror To: Sou Dow Sub	sage ID: 0k e: 2023/04/2 m: carlhowe WG1V rce: SMTP /nloaded-fro ject: Re: Te	Add a new Personance to 24 ch May 6 Remove a Person Select the folde om: Telnet:cl st	Pe onal Folde Exercise onal Folde r from the	er. Limit er. elist	Iders 2 Update Cancel			



Moving a Message to a Folder

- 1. Highlight the message or messages you wish to move
- 2. Select the folder you'd like to move them to.
- 3. Click Move To.



Slides and documents available at http://wg1v.org/



ate/ me	Message ID	Size	Source	Sender	Recipient	Subject	
23/04/2	0KF4UW9	230	SMTP	SMTP:carl	WG1V	Re: Test	1

Message ID: 0KF4UW970BGY





Summary

At the end of the day, Winlink is just an offline email client that talks to internet servers using radio. We use it by:

- Creating emails offline and posting them to an Outbox
- Explicitly connecting to servers to send or receive emails
- Reading our emails offline once transmission is complete
- Limiting our messages to the essentials

Slides and documents available at <u>http://wg1v.org/</u>

Winlink Express alternative for Mac users

Why I Don't Use Winlink Express

- Windows-only and I run my shack with a Mac mini m1
- Monolithic architecture
- Doesn't play well with others
- Predominantly uses a commercial Windows-only modem

What I Use on My Mac instead of Winlink Express

- Pat for reading and sending emails (runs native on the Mac)
- rigctld and flrig for rig control servers
- ARDOP and/or VARA in a Parallels VM (working on a Mac-native ARDOP implementation)
- fldigi, WSJT-X and Rumlog for other digital modes, logging, and contesting
- All these programs run simultaneously and can share my radio as needed