



HF Chat reinvented

Download the VarAC V5.0.2.0 Software:

https://www.varac-hamradio.com/download

English Manuals by VarAC Users:

https://www.varac-hamradio.com/forum/manuals/english-manuals-by-varac-community

Windows prerequisites

Windows 8.1 and above

(some hams reported that Win7 also works)

.NET framework 4.X or above

Linux / Pi / Mac prerequisites

WINE platform

Use Winelink or stand alone install manual

VarAC Quick Start Guide

https://www.varac-hamradio.com/forum/manuals/varac-quick-start-guide

Station Requirements

If you can operate FT8, your station is already set-up for VarAC.



Computer Interface



OR



DRA-30

Basic VarAC Configuration

https://rosmodem.wordpress.com



- 1. Make sure you installed VARA-HF modem. It can be downloaded from https://rosmodem.wordpress.com
- Unpack (Unzip) VarAC in a dedicated directory. c:\VarAC can be a good place. <u>DO NOT</u> run it directly from the zip file!
- 3. Launch VarAC by double clicking the VarAC.exe file.
- 4. You will be asked to enter your callsign in the "My callsign" text box.
- 5. On the top menu select: Settings --> RIG control & VARA Configuration
- Set your desired PTT and Frequency control modes (CAT/OmniRig/RTS/DTR) and use the TEST buttons to make sure they work. You can find <u>here</u> some screenshots of popular rigs configurations made by VarAC community members.
- To allow VarAC to automatically launch your VARA modem, tell VarAC where the VaraHF modem is located under the "VARAHF main file path" section. Point it out to the VARAHF.EXE file you installed on step #1 (or VARAFM.EXE if you use VaraFM)
- Make sure you select the right VaraHF port in the "VARAHF main port" section. The default port of VaraHF modem is 8300
- 9. Click "SAVE & CLOSE"

Settings to Get You Started

Rettings		- 🗆 X				
PTT Configuration	Frequency Control	VARA Modem Configuration				
● CAT Icom IC-7300 ~	● CAT Icom IC-7300 ~	VARA modem type VaraHF ~				
OmniRig ODTR/RTS	◯ OmniRig ◯ None	VARA-HF/FM Main				
○ VOX/None	Read freq. every 2 -> sec	VARA-HF/FM Monitor (Optional) (2)				
TECT	Mode USB-D ~	File path C:\VARA-MON\VARA.exe Port 8350				
PTT ON PTT OFF	TEST 7105000 ~	QSO Configuration				
CAT Configuration	OmniRig Configuration	Call ID TX interval (min) 10 🗸 (?) 🗹 Allow last heard peeking (?)				
Port COM3 ~	Rig # 1 ✓	Auto disconnect 3 (?) Allow non-ham callsigns (?)				
Baud 115200 ~	1 ig ii	Allow incoming pings (?)				
Parity None ~	DTR/RTS Configuration	Callsigns block list (?)				
Data bits 8 🗸 DTR HIGH 🗸	Port 🗸	Auto away status				
StopBits 1 V RTS HIGH V	Type DTR 🗸	File Transfer				
Test Error Log (?) I'm having trouble with	CAT control	Incoming file size limit (bytes) 500 (?)				
		Incoming files directory C:\Users\Irad\My Drive\Hamadio\varAC\ Outgoing files directory C:\Users\Irad\My Drive\Hamadio\varAC\				
Logging						
ADIF file C:\Users\Irad\My Drive\Ham	adio\varAC\VarAC\VarAC\bin\Deb (?)	Beacons / CQs Misc.				
Send log Log4OM(UDP) V I	P 127.0.0.1 Port 1200 (?)	Beacon interval (minutes) 15 V (?) Debug mode (?)				
Upload data to PSKReporter						
DOWNLOAD latest CAT command file	SAVE AND E	XIT				

Features with VarAC V5.0.2.0

1. **Sending VMail** - VarAC's own Email. Leave a message for the operator of a Beacon station. It let's you add something to the contact DURING OR AFTER on VarAC's on Newer Versions, once you had signed-off. They will pick it up the next time they log on.

2. VarAC Slots - New and Expanded QSY Methodology - This permits a more efficient use of the bandwidth.

3. Log Many QSO Elements, Text sent to you within "Canned Messages" is automatically stored.

4. Guidance with Frequency Change - A text box tells you what frequency you should be on based on your own Slot Selection.

5. Custom **PSK Reporter** Link to a Map - *Stations that heard you are listed*.

6. **EmComm Version** - ICS "Mime" Forms are downloaded and stored. They can be used to send EmComm ICS Messages to Agencies providing emergency services in a format with which they are familiar.

7. **QSO History Revealed** - *Text messages let you know IF you have worked before.*

Sample Text Exchange

18:45:40 - K5DSJ> I loved the Las Cruces area. My son lives on the west side of El Paso. 18:46:06 - KC2LM> Wx today, cloudy es cool. Temp about 68 Deg F. 18:46:12 - K5DSJ> de K5DSJ <R+06> 18:46:19 - KC2LM> de KC2LM <R-05> 18:46:41 - K5DSJ> He goes to NMMSU 18:47:24 - KC2LM> Retires school teacher. Other hobbies, motorcycle touring and paragliding. 18:47:56 - K5DSJ> Partly cloudy and 74 Deg here. Spring, TX, just north of Houston. 18:48:19 - KC2LM> Age 76, Been ham since 1961 18:49:03 - K5DSJ> Age 65. Only been a ham since 2000. 18:49:29 - KC2LM> Been to your area, niece lives in Houston, far more humid than NM. But NM 18:49:58 - K5DSJ> Found a new hobby during all the pandemic mess. 18:50:30 - KC2LM> I operate most digital and CW modes. 18:50:36 - K5DSJ> I liked the drier climate. No hurricane worries either. 18:51:36 - K5DSJ> I like SSB and am learning CW. I hunt POTA stations. 18:52:39 - KC2LM> No hurricanes, No rain, period, but lots of snakes! I have a rattler living under figure, I'm ahead. 18:53:31 - KC2LM> I too op POTA, and activate NM Parks a few times a month. 18:54:37 - K5DSJ> Logging into a zoom channel where I hang out with some other buddies and 18:55:42 - K5DSJ> He was featured in the Feb edition of QST. 18:56:04 - KC2LM> OK! 73s, David es tnxs for the chat 18:56:10 - K5DSJ> de K5DSJ <R+06>



CQ Slot Selector



How Slot Frequencies Work

1. **Calling CQ**, Pick a Slot Frequency, there are 5 kHz Below & 5 kHz Above the Calling Frequency

2. Use the **Slot Sniffer** (*for CAT controlled rigs*) to Identify slots that are FREE. *If without CAT Control, you will have to do this manually*.

3. CQ transmits on the Calling Frequency (20 meters, 14.105.0) and Identifies the SLOT you selected.

4. You, Working Manually or Your Rig (*for those with CAT*) will QSY to the selected slot and wait for an incoming call

5. A station double-clicks on your call appearing in the CQ Box and will automatically QSY (*If CAT is used*) to the selected SLOT, initiating contact

The Software will Guide You Through the Process.

Slot Identifier

Last Heard CQ Calls



 11
 12
 13
 14
 15

 14.105.000
 0
 0
 0
 0
 0

 0
 Slot #0
 Selected Slot frequency
 Make sure the slot is not out of band!

To Answer W1IZZ's CQ, Set Your Radio to his **Slot Frequency** (14.108.000) And then **CLICK** on his Call Sign

Last Heard Beacons

Beacons are Transmitted on <u>Calling Frequencies</u>



- * Beacons are usually sent automatically by an unattended station.
- * Here is a Strong Signal From Japan
- * Click on **JA1PAN** to Initial a **PING** (*a Signal Report*). Select PING from the pull Down Menu



VarAC's Features



"DISCO" - will make sound. "HIHI" - will make a smiley emoji 😀 😅 "TU!" - will say "THANK YOU 🙏"

Progress Bar



The Progress Bar Illustrates the Speed with Which the Message/File is Being Transmitted *OR* Received.

When Completed, the Text of the Message Appears on the Main Screen in **Red** for what's **Transmitted** and **Blue** for the **Received** Messages.

PSK Map - Signal Results From Reporting Stations



Using Canned Messages

Sottings											
Sculligs Fources About		1. Select Canned Messages from the Pull Down Menu									
Canned Msg	Canned Msgs										
			K0100	E	2. Fill-In Text With	in the Canr	ied Messag	ges Pa	nel		
SLOT	General Connect Connect Complete the Title for Each			Massaga							
CF 💿 500Hz 🔿 2300Hz) 2300Hz	5. De Sure to Complete the <u>Thie</u> for Each Message							
Disable PTT FREQ SCHEDULE OFF		4. Message(s) within Brackets <name> <call> <rig> are</rig></call></name>									
CONNECT MODEM CONNECT PING		developed when you	ı first sot-un t	the program	n OR	from	the OS	0			
DISCONNECT M	ODEM	DISCO	NNECT	ABORT	uevelopeu when you	i iii si set-up	the program		11 0111	the QS	ΰ.
	TUNE	CALL	CQ	END CQ	In QSO with M	essage	IDLE			🗌 I'm aw	vay (A
TX RX	0/0	SE	ND BEAG	CONS	Fi	le	IDLE			Send	'is typi
Data stream										Duration	
	•	Can	ned I	Messa	.ges				-		×
Welcome Welcome to KC2LM in Albuquerque, NM				(?)	Tags	Auto cond m	000000				
	35/100			5/100				4	<disc></disc>	Disconnect	assay
						(2)	<call> <name></name></call>	My Callsign My Name			
	I'm Away I am away. Please Leave a Message.					(:)	<qth></qth>	My QTH My Locator			
	37/100								<rig></rig>	My RIG	
	Canned Msg #1 <name< th=""><th colspan="2">> > <snd></snd></th><th>Name</th><th colspan="2">My INFO</th></name<>		> > <snd></snd>		Name	My INFO					
	Cann	ed Msg	g #2	My Wo	orking Conditions <rig></rig>			Name	RIG		
	Cann	ed Msg	g #3	73 All t	he Best de <call> <dis< td=""><td>CONNECTIN</td><td>G> <snd></snd></td><td>Name</td><td></td><td>73</td><td></td></dis<></call>	CONNECTIN	G> <snd></snd>	Name		73	

QSO Details Are Sent to the Logging Section

CALLSIGN	RST-S	RST-R	BAND	NAME	QTH	LOC
NC3Z	-08	-03.	20m	Gary	Merrit, NC.	FM15qd

New Message

Text Typed Here will be Sent on the Next Exchange.

* Text Messages are Transmitted Between Stations in a Hand-Shake Mode

* The Speed of the Message Transfer Depends on the Signal Strength

* The Application Adjusts Its Speed Based On Its Connectivity

* Messages Are Sent/Received, Error Free

Popular Operating Calling Frequencies



Questions? Comments?

Who wants to Try It?