INSTALLING VARA-C HF AND OR VHF/UHF FM

Gordon Gibby KX4Z 11/25/2022 Best I can do, use at your own risk!

1. Download updated VARAHF and VARAFM modems from this website: (ignore the MAGA stuff and just find the download button and download, extract, and install) <u>https://rosmodem.wordpress.com/</u>

2. Download updated VARAC software here: <u>https://www.varac-hamradio.com/download</u> (They make you register your name and email address.

3. VARAC does not seem to have the use MSI installation software -- so it just gives you a series of programs and data files. You can make a directory (such as VARAC-HF or VARAC-FM) on your computer and copy the files there, and then use the right-click-"send-to" to create a deskstop icon. I have two directories and two icons -- one for :VARAC for HF and one for FM, since they need to specify different modems.

4. You'll have to do some "setup" to specify the modem, and what type of control (CAT, VOX, etc) you want for VARAC. If you're familiar with FLDGI or WINLINK, this will be relatively straightforward.

5. The author of the VARA-C software tends to like you to run his software in "Administrator" mode to get around firewalls. I'm not quite so happy with that plan, although I think it works. I preferred to go to the extra trouble (as suggested by another on a forum) to explicitly open the socket 7100 to tcp traffic, and try to limit it as much as possible. Others may provide additional corrections to the procedures below designed to limit the opening to JUST this computer (127.0.0.1, I think) -- I haven't managed to do that yet, but "edged traversed" packets are blocked.

If you don't want to go through this, you might wish to just right-click theprogram to bring up the options and select "open as Administrator"

-----opening 7100 to tcp packets ------

- 6. Click the START button and choose **SETTINGS** icon. (Looks like a starburst)
- 7. Search for Firewall and Network Protection.
- 8. Click on the additional option, "Advanced settings"
- 9. Click on Inbound Rules (we're going to add another rule to allow inbound packets)



10. Choose New Rule, and apply it to a PORT



11. To the TCP protocol

Indows Defender Firewall wit	Actions	Actions	
Rew Inbound Rule Wizard		× Acti A Inbound Rules	
		Allo 🛛 🚉 New Rule	
Protocol and Ports		Allo Filter by Profile	
Specify the protocols and ports to which this rule applies.		Allo Alla Filter by State	
Shame		Allo Filter by Group	
oleps.	Does this rule apply to TCP or LIDP?	Allo	
Hule Type		Allo	
Protocol and Ports	• TCP	Allo Refresh	
Action	O UDP	Allo Export List	
Profile		Allo 🛛 😰 Help	
Name	Dose this sile apply to all local parts or energic local parts?	Allo	
	boda tria rele apply to all rocal porta or apecific rocal porta?	Allo	
	◯ All local ports	Allo	
	Specific local ports: 7100	Allo	
	Example: 80, 443, 5000-5010	Allo	
		Allo	

12. Allow the connection

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🔐 New Inbound Rule Wizard		< Allo		
Action		Allo		
Specily the action to be taken when a connection matches the conditions specilied in the fulle.		Allo		
Steps:		Allo		
D L T	What action should be taken when a connection matches the specified conditions?	Allo		
Hule Type		Allo		
Protocol and Ports	Allow the connection	Allo		
Action	This includes connections that are protected with IPsec as well as those are not.	Allo		
Profile		Allo		
Name	 Allow the connection if it is secure 	Allo		
	This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and piles in the Connection Security.	Allo		
	Rule node.	Allo		
	Customen	Allo		
	A CONTRACT OF A CONTRACT OF	Allo		
	O Block the connection	Allo		
		Allo		
		Allo		
		Allo		

13. (This will automatically not allow "edge-traversal" from the majority of computers on the internet, so don't change that)

