## ARDOP setup with Winlink Express Using C-Media Based Digital Interfaces

(NS7C 2-7-2025)

Applies to: Masters Communications RA and DRA series adapters, RIM Lite series, URI, and many other sound card adapters that generate PTT using the C-Media GPIO lines. ARDOP HF v1.0.2.6+ now supports C-Media based interfaces natively.

Be sure to connect your sound card interface to the computer before starting this setup. If the device is not connected, you will not have the option to select a C-Media device.

Start the ARDOP TNC manually (do not start Winlink Express), the executable is normally found at: "C:\RMS Express\ARDOP\_Win.exe"

ARDOP_Win Virtua TNC Ver: 1.0.2.6	)			
File Graphics Send Abort	Logs Help			
Virtual TNC Setup	0	ffset:	State:	DISC
Optional Radio Setup		Rov Fra	me:	
About		X Maria I	me.	
Close			ine.	
Avg SR Err: 65 ppm	: 1.5 KHz	+1200 Ho	st: TCPIP on p	ort 8200,8201

Make sure you have version 1.0.2.6 or greater, then select File $\rightarrow$ Optional Radio Setup

On the Radio Settings menu, under PTT Control, select CMedia. If there is only one device connected, it will default to CMedia-1. If there are more than one CMedia devices connected, select the appropriate interface using the pulldown selection (this may require some experimenting to determine which interface is connected to the HF radio). Check the "Enable TNC Control or Radio or PTT" box, then click the "Save to ini File" button to save the changes. For Winlink Express users, <u>do not</u> set any Radio Selection parameters here, they will be set in the Radio Setup under the ARDOP session on Winlink Express.

Radio Settings Radio Selection - Note: Not all radio control features (Filter, Select Radio Model	Antenna, and Tuner) enabled in this revision ARDOP Bandwidth Hz : 0 disables filter control
Icom Address 88 USB C USB Digital © Antenna Selection 0  Use Internal Tuner	FM O Use Radio's Internal Sound Card I
Radio Control Port Serial Port to Use COM10  Baud 19200	Enable RTS 🗹 Enable DTR 🗹
PTT Control PTT Mode/ComPut	S M Use DTR T CMedia-1
Enable TNC Control of Radio or PTT 🔽	Abandon Edits/Close Save to ini File

Back on the main TNC screen, select File $\rightarrow$ Virtual TNC Setup

On the ARDOP Win TNC Setup menu, select the sound card interface under the Sound Card Capture and Playback Device settings. Other settings here can be left at the defaults, or adjusted according to user preference. Once complete, click on the "Save to ini File" button to save the changes.

ARDOP Win TNC Setup					
Host Interface         These host interface parameters are normally set in the command         line when the Host launches the ARDOP Win TNC.         Enable Secure Login					
TCP/IP TCP Address: 127.0.0.1 TCPIP Port#: 8200					
C Serial COM Port: Baud: 0					
C BlueTooth Pairing:					
TNC Parameters         Most of these TNC parameters are normally set by the host program         but may be viewed/initialized here for development and testing.         Call Sign:         NS7C         Enable CW ID         Graphics Options         Sound Card Capture Device:					
Image: Start File Finable Time degrad       Image: Waternall of Waternall       Image: DRA RX (USB PnP Sound Device)         Image: Disable finable Command Trace       Image: Spectrum of Disable       Sound Card Playback Device:         Image: Disable finable Command Trace       Image: Disable finable Command Trace       Disable         Image: Disable finable Command Trace       Image: Disable finable Command Trace       Image: Disable finable Command Trace         Image: Disable finable Command Trace       Image: Disable finable Command Trace       Image: Disable Command Trace         Image: Disable finable Command Trace       Image: Disable Command Trace       Image: Disable Command Trace         Image: Disable finable Command Trace       Image: Disable Command Trace       Image: Disable Command Trace         Image: Disable finable Command Trace       Image: Disable Command Trace       Image: Disable Command Trace         Image: Disable finable Command Trace       Image: Disable Command Trace       Image: Disable Command Trace         Image: Disable Command Trace       Image: Disable Command Trace       Image: Disable Command Trace         Image: Disable Command Trace       Image: Disable Command Trace       Image: Disable Command Trace         Image: Disable Command Trace       Image: Disable Command Trace       Image: Disable Command Trace         Image: Disable Command Trace       Image: Disable Command Trace       Image: Disable Command T					
FEC Frame Type: 4PSK.500.100  FEC Repeats: 2  FEC Id Protocol Mode: ARG					
ARQ Bandwidth: 2000MAX 🔹 ARQ Connect Request Repeats: 5 🗧 ARQ Timeout (sec): 60 ≑					
Drive Level: (0-100)       Squelch(1=10)       BusyDet(1=10)       Tuning Range +/- Hz       Leader Length (ms):       Trailer Length (ms):         90       \$\$\$       \$					
Enable Optional TNC Radio Control     Reduce CPU loading					
Abandon edits/Close Save to ini File					

Close the ARDOP TNC application, then start Winlink Express and start an ARDOP HF session. Under the ARDOP Winlink Session, select Settings  $\rightarrow$  Radio Setup and complete the setup for rig control.

🗱 Ar	dop Winlink Session - NS7C	- 0	×
Exit Favor	Settings Channel Selection Ma Ardop TNC Setup Radio Setup	ap       Forecast       Best chan.       Next chan.       Start       Stop       Abort         7108.000       Dial Freq. (kHz):       7106.500       Bearing:       101       Quality:         •       Select       Add to favorites       Remove from favorites	
Channe ARD( Using Waitin Read	DSP Speed Test Best channel setup ng for TNC to initialize v to start calling.	Disconnected	^