	DVTool	2.0
DVTool		
My Callsign:	AA4RC My Messa	ge: Robin in Atlanta
DV Device:	/dev/cu.usbserial-A9004uC -	Open Name: Serial #:
Connection	Info History Data Uti	lities Setup
Connec	ct to Gateway	✓ Module: C ✓
MyC	all UrCall	RPT1 RPT2
User	Message:	
		Bit Errors:
Gateway	TX Call	mic level:
Device closed		□ mute PTT 🗹 lock ():():():

Start the DVTool application by double clicking on the DVTool icon on your desktop. This brings up the main application window shown above. If you receive a popup dialog stating that no devices were found, close the application and make sure your DV Dongle is plugged in and the green LED is slowly pulsing. You may need to install the FTDI USB device drivers by following the steps in the Installation page above. You should have a device shown in the "DV Device" box. On Windows, this will look like "COMxx". On Mac O/S X, this will look like "/dev/cu.usbserial-A9xxxxx". On Linux, this will look like "/dev/ttyUSBx".

Enter your amateur radio callsign in the "My Callsign" box and enter up to 20 characters of custom user message in the "My Message" box.

Click the "Open" button to open the DV Dongle. The application will connect to the gateway/reflector name server and retrieve the list of currently available systems.

• • •		DVTool 2.0			
DVTool					
My Callsign:	AA4RC	My Message:	Robin in	Atlanta	
	/dev/cu.usbserial-		lose		Dongle 072700
	Info History	Data Utilities	Setup 	Nodule:	→
		Favorites	1		
MyCa	ม เ	JrCall	RPT1	RP	T2
User N	lessage:				
				Bit Errors:	
Gateway	TX Call			mic level:	
Device opened			mute		• 00:00:00

Once opened, you should see the gateway/reflector list in the box next to the "Connect to Gateway" button. You will also see a module in the "Module" box.

• • •		DVTool 2.0		
DVTool				
My Callsign:	AA4RC M	y Message:	Robin in Atlanta	
DV Device:	/dev/cu.usbserial-A900)4uC - Cl	OSE Name: Serial #:	DV Dongle DV072700
Connection	Info History Dat	a Utilities	Setup	
Audio G	ateways Look and Fee			
	Audio Input:	Rode Podcas	ler	-
	Audio Output:	Built-in Outpu	t	-
Test	Audio Using Soundcard O	nly	Test Audio Using D	V Dongle
	🗌 Disa	able Comfort No	ise	
You should test	your audio levels befor	e transmitting	to a connected s	ystem. Use the
"Audio" subtab o	on the "Setup" tab for th	nis. Select yo	ur Audio Input and	Output devices
	n "Test Audio Using DV	-		-
	DV Dongle and then b			
	your mic le vel gain g op			
levels.	the timer clock should s	snow your au		

You can disable the comfort noise by clicking on the "Disable Comfort Noise" checkbox.

		DVTool 2.0			
/Tool					
My Callsign:	AA4RC	My Message:	Robin in	Atlanta	
DV Device:	/dev/cu.usbseria	al-A9004uC	Close		0V Dongle 0V072700
Connection	Info History	Data Utilities	Setup		1
ou can custon avorites" che further down	nize the list using ckbox to show or conthis page.	REF001 the REF002>Gate by ABEF002>Gate by ABEF003 to REF004 REF005 REF006 REF007 REF008 REF009	vays tab. Y	ou can the ns for cus	en click on the
User	Message:	REF010	·		
•		DVTool 2.)		
VTool					
My Callsign:	AA4RC	My Message	Robin	in Atlanta	
DV Device:	/dev/cu.usbset	ial-A9004uC 🗸	Close	Name: Serial #:	DV Dongle DV072700
Connection	Info Histor	y Data Utilitie	es Setup	1	
Conn	ect to Gateway	REF001	•	Module:	C - A B
My	Call	UrCall	RPT1		
Use	er Message:				
				Bit Errors:	
	тх с	all		mic lev	vel:
lateway	IAC	all		1110 101	

Select the module for the remove gateway/reflector using the "Module" box. Module "C" is the most common. If you select the "*" module, you can monitor all of the modules on the

remote system but you cannot transmit. Once you hear a conversation, switch to the module used by the talkers so you can transmit.

•••	DVT	ool 2.0	
DVTool			
My Callsign:	AA4RC My Mes	ssage: Robin i	n Atlanta
DV Device:	/dev/cu.usbserial-A9004uC	Close Utilities Setup	Name: DV Dongle Serial #: DV072700
	ateways Look and Feel	ounties octup	1
Select	gateways/reflectors from the All	list and add to the F	avorites list:
	All	Favorites	
REF REF REF REF REF REF	002 ☐ 003 004 Add >> 005 006	REF001 REF002 REF014 REF030 KI4SBA W4DOC WX4GPB	Move up Move down Delete In is lost
Gateway Device opened	TX Call	mute	mic level:

To customize the gateway/reflector list, make sure the device is opened and click on the "Setup" tab and then the "Gateways" subtab. Click on your favorite systems in the "All" box on the left. Then click "Add>>" to add them to your favorites list. You can change to order of your favorites by clicking on a system and then "Move up" or "Move down". Use the "Delete" button to remove the selected system from the list.

Sometimes, your internet connection can be a bit flakey. You can click on the auto reconnect checkbox to have DVTool automatically reconnect to the system if you loose your connection. If you have connection issues or dropouts, try using a hardwired network connection rather than WiFi.

		DVTool 2.0		
DVTool My Callsign:	AA4RC	My Message:	Robin in Atla	nta
DV Device: Connection	/dev/cu.usbserial-	-A9004uC - C Data Utilities	lose Name Serial	
Con	nect to Gateway	REF001	Modul	le: C -
Ν	lyCall	UrCall	RPT1	RPT2
Us	ser Message:			
			Bit Erro	ors:
Gateway	TX Call		mic	clevel:
evice openeo	1		mute PTT	₩ kock ()(:)):)

If you click on the favorites checkbox, you will see only those systems that you customized earlier.

• • •	DVTool 2.0
DVTool	
My Callsign:	AA4RC My Message: Robin in Atlanta
DV Device:	/dev/cu.usbserial-A9004uC - Close Name: DV Dongle Serial #: DV072700
Connection	Info History Data Utilities Setup
Click on the "Cor connected, you s	Sconnect REF030 Module: C nnect" button to connect to the system in the box to the right. Once should see the green, blue, and yellow LEDs flicker. You will also here the showing that your sound card is working. You can disable this white noise BPT1
callsign information PTT button on the the right of the P start transmitting	MARK COCOCO REF030 C WB4HRO G keys up on the connected system, you will hear them and see their Message when above AKMA concession by clicking and holding down green the lower right and then talking into your mic. If you click on the lock box to TT button, you don't need to press and hold PTH button. Click once to and once to stop.
Gateway REFO	30 TX Call KJ4VO /MARK mic level:
Listening to KJ4V The clock on the	O mute Control will show how long the remote user is talking. It will also show

you how long you have been transmitting. There is a 3 minute limit on transmissions since most gateways will stop transmitting after that time.

			DVTo	ol 2.0		
Tool						
ly Callsign:	AA4RC		My Mess	sage: Ro	bin in Atlanta	
V Device:	/dev/cu	usbserial-A9)04uC	Close	Name: Serial #:	DV Dongle DV072700
Connection	Info	History D	ata l	Jtilities Set	tup	
REF030 soft	tware ve	rsion: 1.30	D	ate: 2015/04/	11 09:51:29 U	TC-4
Linked Rep	eaters:	DV Dor	gles:		Last Heard	d:
MODULEA W4PVW A MODULEE K4GAR B KA4RVT B KI4SBA C KJ4GGV C KJ4KLD C	3	KC8CFI C: VK3BE WB4BXO AD4SB K3DY G0MBA C: KC1AZ KD8RWK	ZZ	C: KB C: KI4 E: KJ4 C: KA C: KA C: KD C: WN C: AD	IKM 09:38:2 IVO 09:35:0 BCNI 09:28: 3IZE 09:20:5 5YBE 08:48 11K 08:25:0	27 08 33 56 :21 03
			DVTo	ol 2.0		
/Tool						
ly Callsign:	AA4R(C	My Mess	sage: Rol	bin in Atlanta	
Vy Callsign: DV Device: Connection		uusbserial-A9	004uC	Close	bin in Atlanta Name: Serial #:	DV Dongle DV072700
OV Device:	/dev/cu	uusbserial-A9	004uC	Close	Name: Serial #:	-
OV Device:	/dev/cu Info	usbserial-A9	004uC	Close	Name: Serial #:	DV072700
OV Device: Connection	/dev/cu Info e :21	usbserial-A9 History D MyCall	004uC	Close Utilities Set	Name: Serial #: tup	DV072700
OV Device: Connection Time 04/11 09:41:	/dev/cu Info e :21 :57	History D MyCall KB5NFL	ata U	Close Jtilities Set UrCall CQCQCQ	Name: Serial #: tup Rpt1 KB5NFL	DV072700 Rpt2 REF030 C
OV Device: Connection Time 04/11 09:41: 04/11 09:41:	/dev/cu Info e :21 :57 :57	History D MyCall KB5NFL KB5NFL	ata U	Close Jtilities Set UrCall CQCQCQ CQCQCQ	Name: Serial #: tup Rpt1 KB5NFL KB5NFL	DV072700 Rpt2 REF030 C REF030 C
OV Device: Connection Time 04/11 09:41: 04/11 09:41: 04/11 09:42:	/dev/cu Info 21 57 57 45	History D MyCall KB5NFL KB5NFL W7HNH	DO4uC ata U DVAP DVAP DVAP	Close Jtilities Set UrCall CQCQCQ CQCQCQ U	Name: Serial #: tup Rpt1 KB5NFL KB5NFL KB5NFL REF030 C	DV072700 REF030 C REF030 C WR7KCR G
OV Device: Connection Time 04/11 09:41: 04/11 09:41: 04/11 09:42: 04/11 09:50:	/dev/cu Info 21 57 57 45	History D MyCall KB5NFL KB5NFL W7HNH KB5NFL	DO4uC ata U DVAP DVAP DVAP	Close Jtilities Set UrCall CQCQCQ CQCQCQ U CQCQCQ	Name: Serial #: tup Rpt1 KB5NFL KB5NFL REF030 C KB5NFL	DV072700 REF030 C REF030 C WR7KCR G REF030 C
OV Device: Connection Time 04/11 09:41: 04/11 09:41: 04/11 09:42: 04/11 09:50:	/dev/cu Info 21 57 57 45	History D MyCall KB5NFL KB5NFL W7HNH KB5NFL	DO4uC ata U DVAP DVAP DVAP	Close Jtilities Set UrCall CQCQCQ CQCQCQ U CQCQCQ	Name: Serial #: tup Rpt1 KB5NFL KB5NFL REF030 C KB5NFL	DV072700 REF030 C REF030 C WR7KCR G REF030 C WB4HRO G
OV Device: Connection Time 04/11 09:41: 04/11 09:41: 04/11 09:42: 04/11 09:50: 04/11 09:51:	/dev/cu Info 21 57 57 45	History D MyCall KB5NFL KB5NFL W7HNH KB5NFL	DO4uC ata U DVAP DVAP DVAP	Close Jtilities Set UrCall CQCQCQ CQCQCQ U CQCQCQ CQCQCQ	Name: Serial #: tup Rpt1 KB5NFL KB5NFL REF030 C KB5NFL REF030 C	DV072700 REF030 C REF030 C WR7KCR G REF030 C WB4HRO G
OV Device: Connection Time 04/11 09:41: 04/11 09:41: 04/11 09:42: 04/11 09:50: 04/11 09:51:	/dev/cu Info :21 :57 :57 :45 :58	History D MyCall KB5NFL KB5NFL W7HNH KB5NFL	DO4uC ata U DVAP DVAP DVAP	Close Jtilities Set UrCall CQCQCQ CQCQCQ U CQCQCQ CQCQCQ	Name: Serial #: tup Rpt1 KB5NFL KB5NFL REF030 C KB5NFL REF030 C	DV072700 Rpt2 REF030 C WR7KCR G REF030 C WB4HRO G S Clear

Click on the "History" tab to see the history of each user that has keyed up on the connected system. If you are running a net, you can use the "gray dups" checkbox to highlight only new users that have keyed up and the "Clear" button to clear the list. To save the history to a CSV file, enter a filename and click the "Save File" button.

DVTool			DVTool 2.0)		
My Callsign:	AA4R	C	My Message:	Robin	in Atlanta	
DV Device:	/dev/cu	.usbserial-	A9004uC 🔽	Close	Name: Serial #:	DV Dongle DV072700
SSCRCA311,K SSCRC9DC9,K	(B5NFL>AP KB5NFL>AF	151,DSTAR*:/1 2151,DSTAR*:/	111341z3142.74N/09 11341z3142.74N/09 111350z3142.74N/09 111350z3142.74N/09	907.76W[177/ 9907.76W[047	000/A=001544 /000/A=001542	
Send file] / _Sa	ave file [Browse	Send
Send file Gateway REF		ave file TX Call			Browse	Clear

Click on the "Data" tab to see the raw data from the D-STAR protocol. This can include GPS, typed text, and D-RATS type data. You can send a message by typing it into the box next to the "Send" key and clicking "Send". You can also send/receive files. Use the "Clear" button to clear the data info box.

• • •	DVTool 2.0
DVTool	
My Callsign:	AA4RC My Message: Robin in Atlanta
DV Device:	/dev/cu.usbserial-A9004uC - Close Name: DV Dongle Serial #: DV072700
Connection	Info History Data Utilities Setup
	Record DVTool file Play DVTool file
	DVTool file: Browse
	and play DVTool/DVRec files using the "Utilities" tab. These files can ord announcements for your local repeater or customize the audio from Record DVRec file emote System Linked".
Use the DVRee and systems.	DVRec file: c file format unless you need a legacy DVTool file for older software
Gateway	TX Call mic level:
• • •	DVTool 2.0
DVTool	
My Callsign:	AA4RC My Message: Robin in Atlanta
DV Device:	/dev/cu.usbserial-A9004uC - Close Name: DV Dongle Serial #: DV072700
Connection	Info History Data Utilities Setup
Audio C	Sateways Look and Feel
	Style: Windows
	Colors: Default
	Font size:
Gateway	TX Call mic level:

You can customize the look and feel of DVTool using the "Look and Feel" subtab under the "Setup" tab. Try changing the Style and Colors to see the options. You can also change the font size using the slider bar. This can help when you change the operating system default font size.

• • •	DVTool 2.0
DVTool	
My Callsign:	AA4RC My Message: Robin in Atlanta
DV Device:	/dev/cu.usbserial-A9004u Close Name: DV Dongle Serial #: DV072700
	Audio Gateways Look and Feel
	Style: Macintosh (aqua)
	Colors: Default
	Font size:
Gateway	TX Call mic level:

	DVTool 2.0
- DVTool ———	
My Callsign:	AA4RC My Message: Robin in Atlanta
DV Device:	/dev/cu.usbserial-A9004uC Close Name: DV Dongle Serial #: DV072700
Connection	Info History Data Utilities Setup
Audio Ga	teways Look and Feel
	Style: Windows Colors: GoldOnBlack
	Font size:
Gateway	TX Cell mic level:

Status indicators:

The DV Dongle has four LED's which indicate the current operating status. The blue LED shows data is being transmitted from the PC/Mac to the device. The yellow LED shows data is being transmitted from the device to the PC/Mac. The green LED shows the mode of operation, slow pulsing indicates idle and fast blinking indicates running. The read LED shows overruns or underruns between the PC/Mac and the device and should normally be off. If you notice frequent red LED activity, your PC/Mac may not be sufficiently fast to operate with the device or you may have other programs running that are taking CPU cycles away from the DVTool application.

Operating notes:

The DV Dongle is a high speed, real time device. It communicates with the PC/Mac at 230Kbps and needs adequate CPU speed and time to operate properly. Many operations on the PC/Mac can interfere with normal operations. These include screen savers, web browsers, instant messengers, etc. For best operation, avoid running CPU intensive applications when operating the DV Dongle.