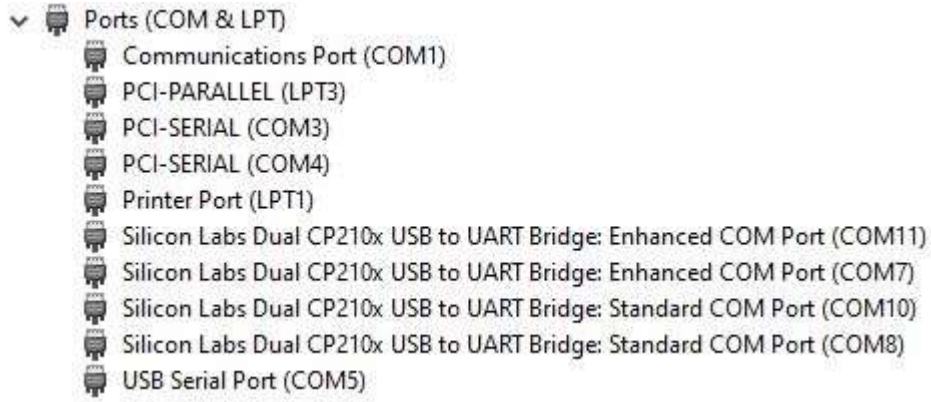
GhostBox SO2R by YO3HEX
N1MM logger setup by Alan VK4SN Ver 3.

Radios:
My setup uses a Yaesu FTDX-10 and a FT991A. Both of these rigs are connected to the PC via a USB cable. Using Yaesu's Silicon Labs drivers produces two COM ports per radio. An Enhanced port and a Standard port. The Enhanced port allows software to communicate with the radio, and the standard port is used for keying like CW and RTTY.

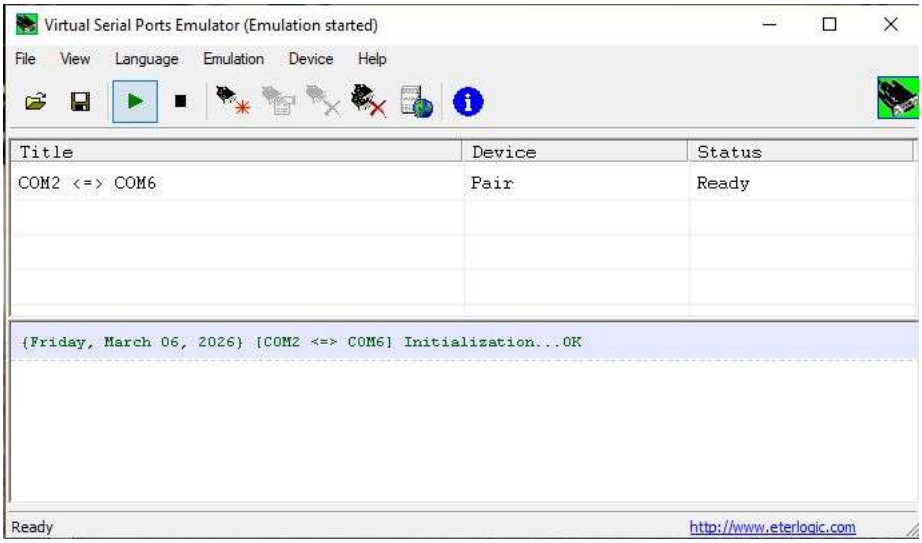
Remember that these radios have had menu changes to allow inputs from other than the microphone socket. See the changes under Radios on my website vk4sn.com

COM Ports:
In my case the COM ports are as follows.

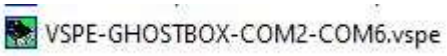


COM 11 and 10 belong to the FTDX-10, and COM 7 and 8 belong to the FT991A.

Another COM port is needed to drive the SO2R portion. This port is a virtual port that uses two virtual ports, (IE not physically installed on the PC). VSPE or other COM port emulators can create a paired port to use for this. In this example, COM 2 and COM 6 have been used.
COM 2 is used on the GhostBox side with N1MM logger connecting via COM 6.



Note: These notes are using MY COM ports. Make sure you use the relevant ones on your PC. Remember to save to a file name that is recognisable so it can be *loaded prior* to starting N1MM or GhostBox.



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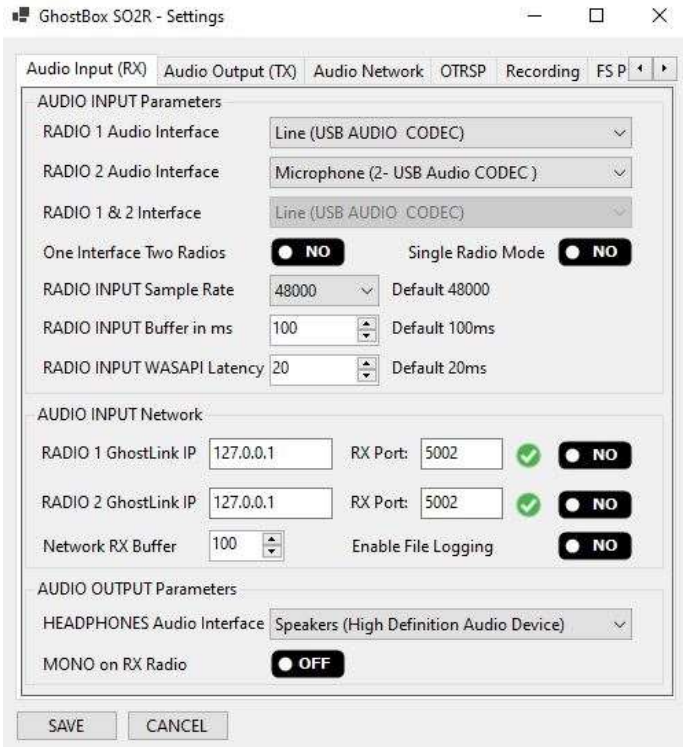
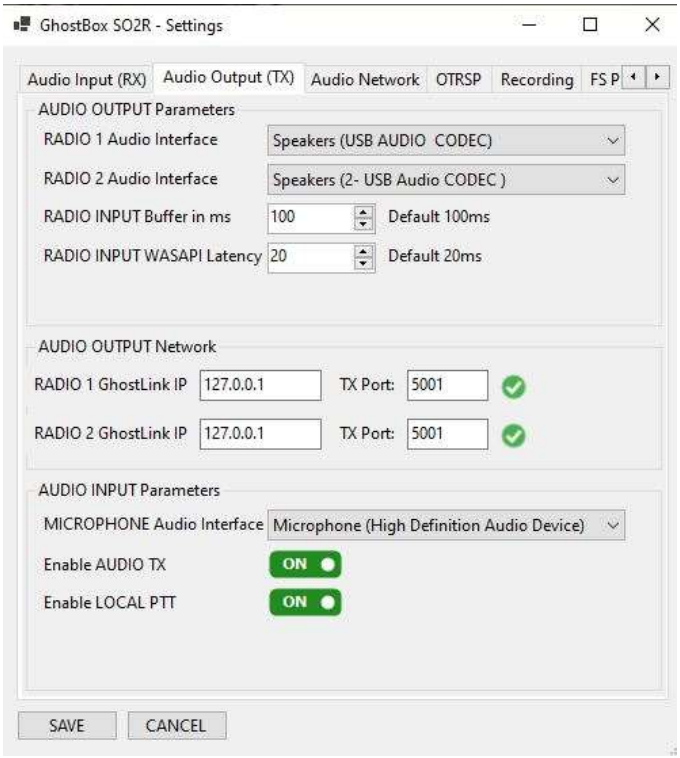
Setting up the GhostBox software.

Audio consists of the lines to and from the radios and a headset plugged into the PC's sound card using the mic and speakers sockets.





Note that the AUDIO INPUT Parameters - Microphone is the headset microphone interface. At present I'm using VOX to key the PTT.

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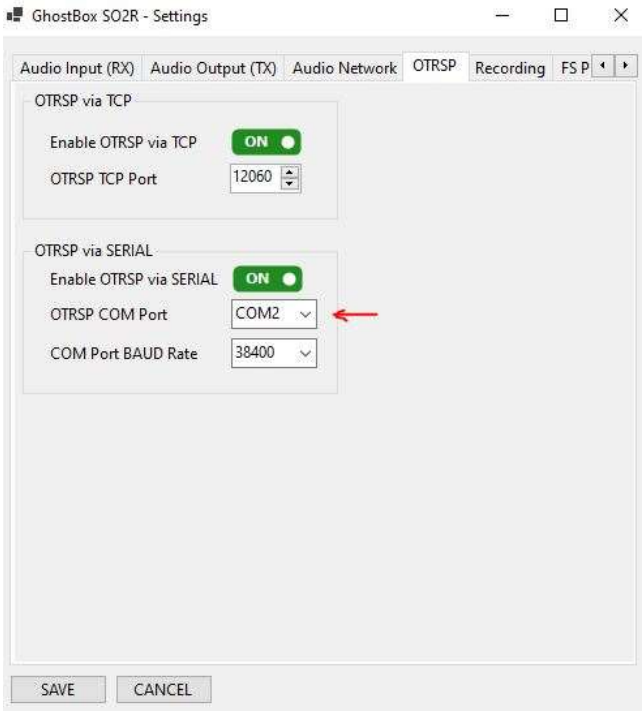
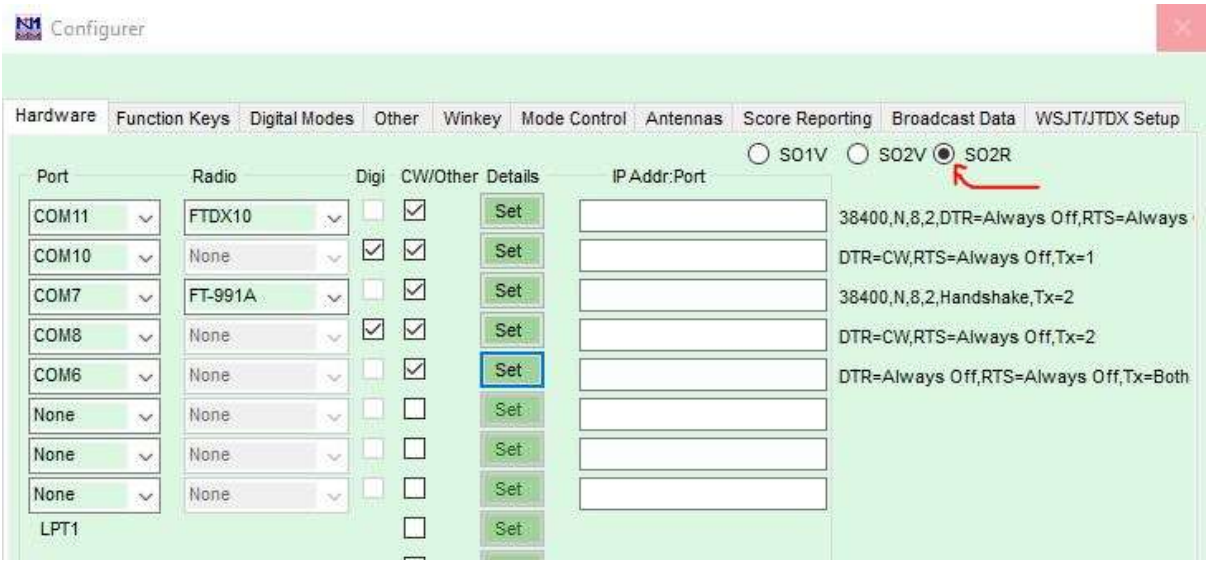
Here is where the OTRSP part is setup. Note that COM 2 (our virtual COM port) is used. COM 6 will link to this in N1MM. I know the notes say that 9600 baud is all you need to use, but keeping continuity in my station, everything is set for 38400. 😊



Setting up N1MM Logger for SO2R.



Make sure that the SO2R radio button is selected.

Each item setup is shown below.

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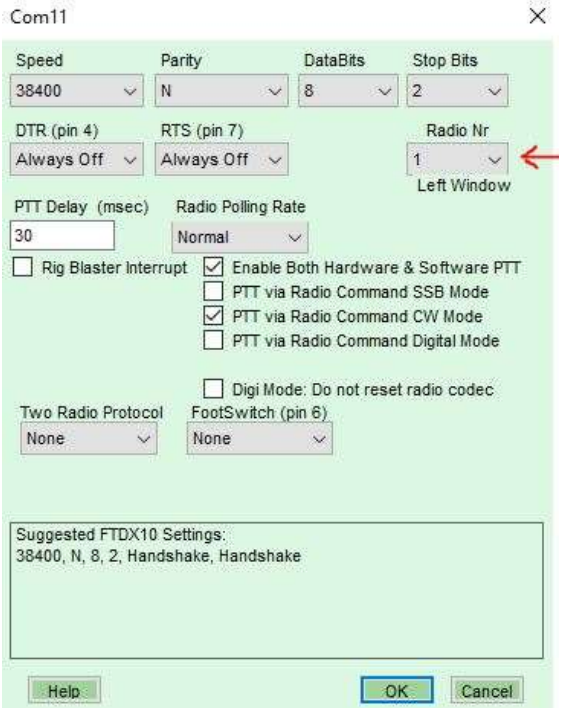
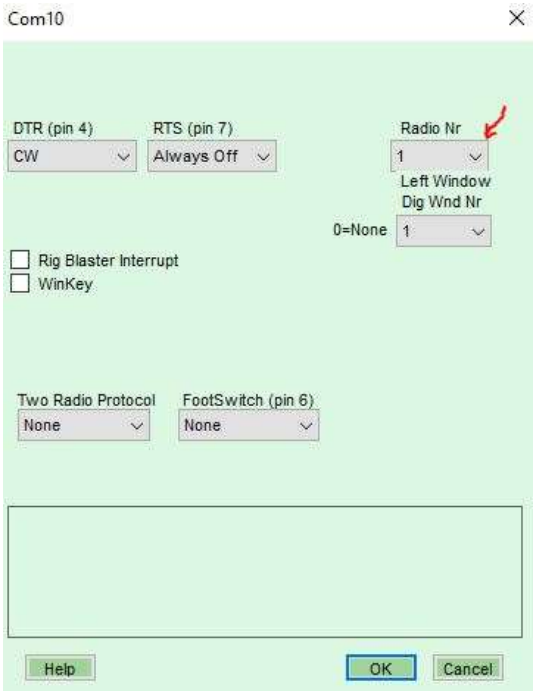
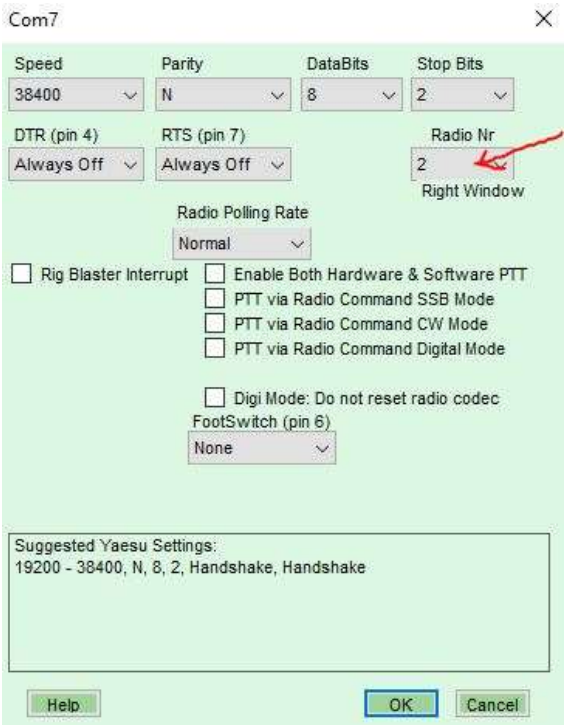


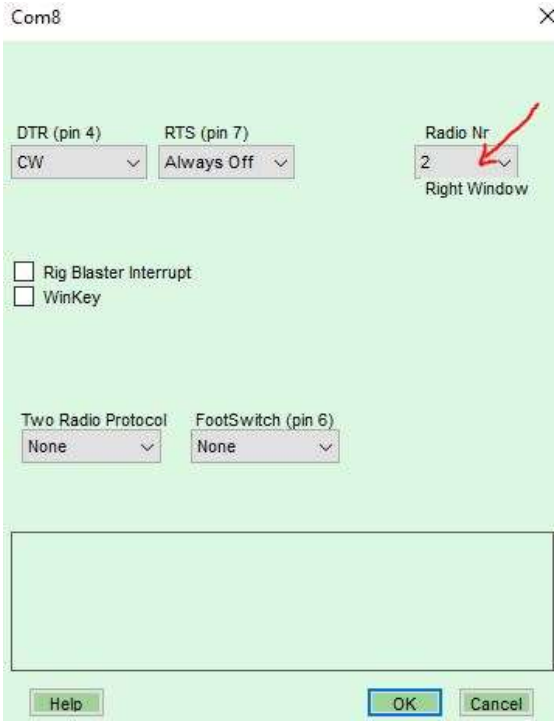
Setting up the FTDX-10 on the Enhanced COM port 11.
Select Radio Nr 1.



Setting up the FTDX-10 on the Standard port for CW. Select DTR = CW
Select Radio Nr 1.



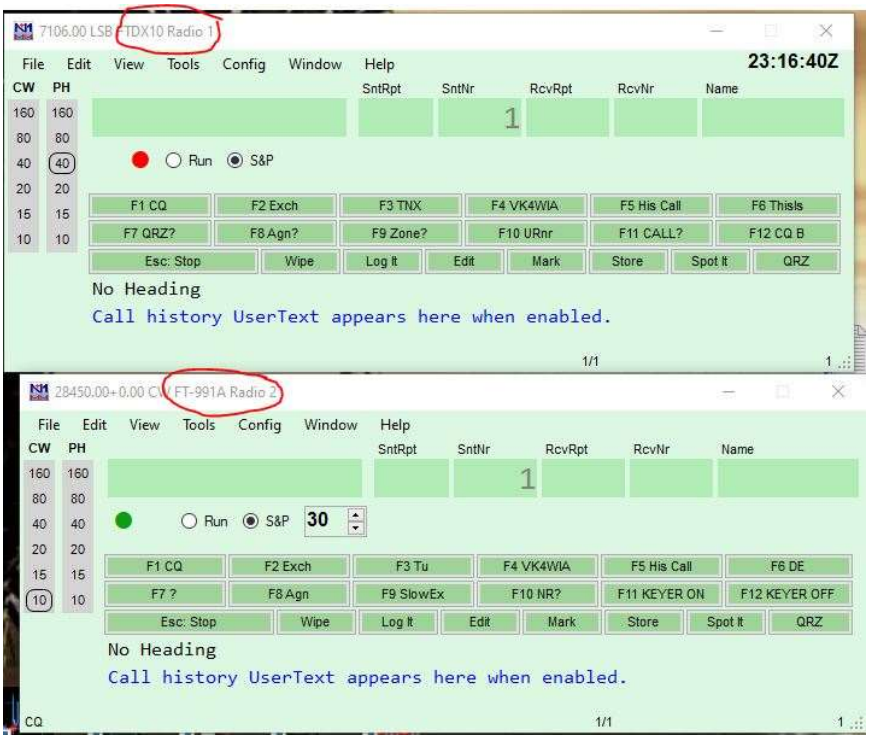
FT991A setup on Enhanced COM port 7.
COM 8. DTR = CW. Select Radio Nr 2.



FT991A setup for CW on the Standard Port. Select Radio Nr 2.

Setting the OTRSP. This is where the connection used the COM pair 2 to 6 created earlier. COM 2 has already been setup in the GhostBox setup, and we use COM 6 here to tie them together.
Select Radio Nr to “Both” and set Two Radio Protocol to “OTRSP” as the picture indicates.

The two entry windows on completion.



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Shortcut keys

If you have used the YCCC SO2R box before, then all the SO2R Keyboard short-cuts will work here.

To toggle from a single radios audio to one in each ear, press the key with a ~ character on it. Just left of the nr 1 key.

To toggle the Receive audio focus from one radio to another, press the key labelled |\ (vertical line, and backslash)

To toggle the Transmit and Receive focus, use CTRL + Right Arrow or CTRL + Left Arrow

To toggle dual CQing, use CTRL + B

Tu, de Alan VK4SN