Configuring N1MM Logger for the SO2R Mini

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Before attempting to use the SO2R Box with N1MM Logger, you should verify that it is working correctly with the SO2R Mini Connector.

Set up two virtual port pairs using com0com or VSPManager. The latter is highly recommended and is available free to all radio hams from the VSPManager website. in my setup, I paired COM 7 with COM 17 and COM 8 with COM 18. See the SO2R Mini Manual for more information; it is a little tricky to set these up. Make note of which COM ports you are going to use for the keyer and SO2R Control.

1. Start the SO2R Box Connector

2. Select the serial port of the SO2R Mini under the "device" drop down. Make sure "Manual SO2R" is unchecked. Select the correct COM port specified in the drop-down box for the keyer box; select the Com port for OTRSP. In my setup, the keyer comm port is COM 17, and the OTRSP Com port is COM 18. Press the "Start" button when these things are complete.
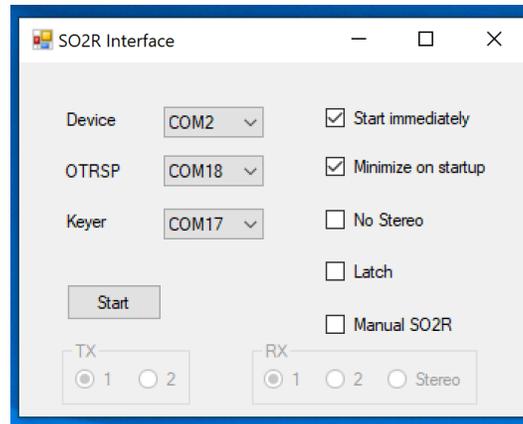
3. Start N1MM Logger.

4. Open up the N1MM Logger Config and choose "Configure Ports, Telnet Address, Other". Select the "Hardware" tab.

5. Make sure the "SO2R" radio button is selected in the upper right hand corner.
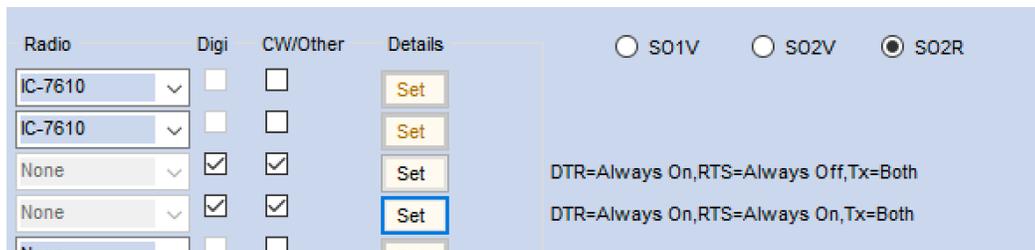
6. Configure both radios for computer control.

7. Find the port that is currently being used to generate CW. TURN IT OFF.

8. Find the port or method you are currently using to generate PTT. TURN IT OFF.

9. If you had a different SO2R Box Controller setup, TURN IT OFF.

10. Find the COM port that is in the pair that you set up for the keyer in Step 2 (in my case, COM 7). Click on the "CW/Other" box. Then click on "set" for that COM port and put a check mark for "Winkey". Make sure the "Radio number" is "BOTH", and that the "SO2R Box Protocol" is None. DTR, RTS, Foot Switch, and CW/PTT Port Address are all irrelevant.
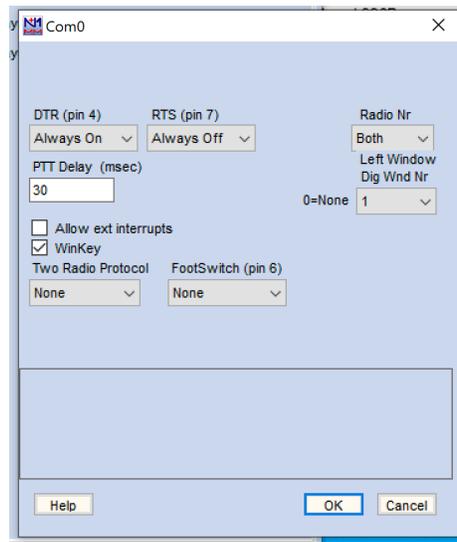
11. Find the COM port that is in the pair that you have set up for the SO2R OTRSP Control in Step 2 (in my case, COM 8). Then click on "set". The "Two Radio Protocol" should be changed to "OTSRP", the "Radio Number should be "BOTH", and RTS should be set to PTT. None of the other values are relevant.
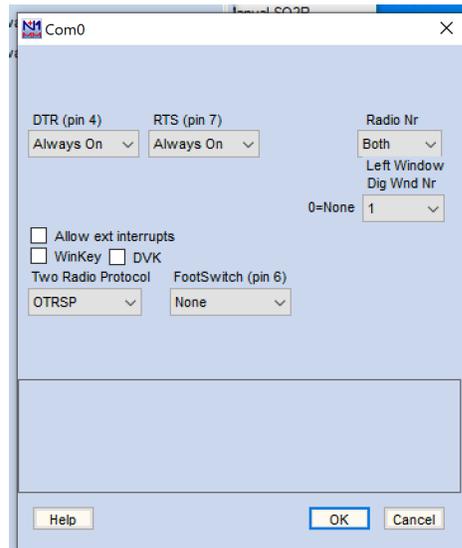
12. In my case, the setup in N1MM Logger and the SO2R Interface are as follows:

COM Port for Keyer in SO2R Box Interface: COM 17

COM Port for SO2R in SO2R Interface: COM 18

COM Port for Keyer in N1MM Logger: COM 7

COM Port for SO2R in N1MM Logger: COM 8

13. Click on Okay. The SO2R Box is now configured.

14. Open the 2nd Entry Window (use backslash "\").

15. Press the Pause key. N1MM Rx and Tx focus should change from one Entry Window to the other.

16. Press the ~ key. The audio in the headphones should change from mono (Rx focus radio in both ears) to stereo (Radio 1 audio left ear, Radio 2 audio right ear).

17. Now select "Latch" on the SO2R Mini Connector. Send a message on Radio 1, and the audio in both headphones should be that of Radio 2.

Questions? Shoot me an email! Marty, NN1C, nn1c@nn1c.org.