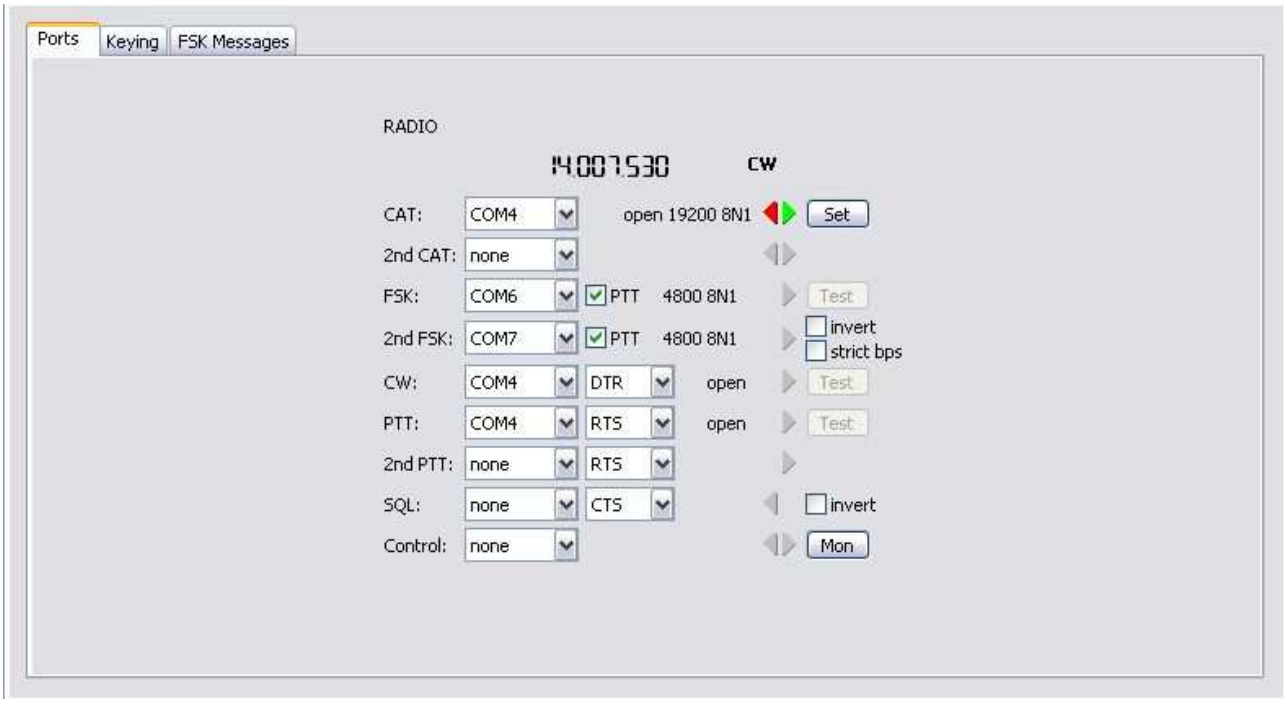
DigiKeyer and N1MM Logger Setup

Router setup:

Note: The specific port numbers are not important. The key is consistency - the same port number must be used for a specific function in both Router and the logger.

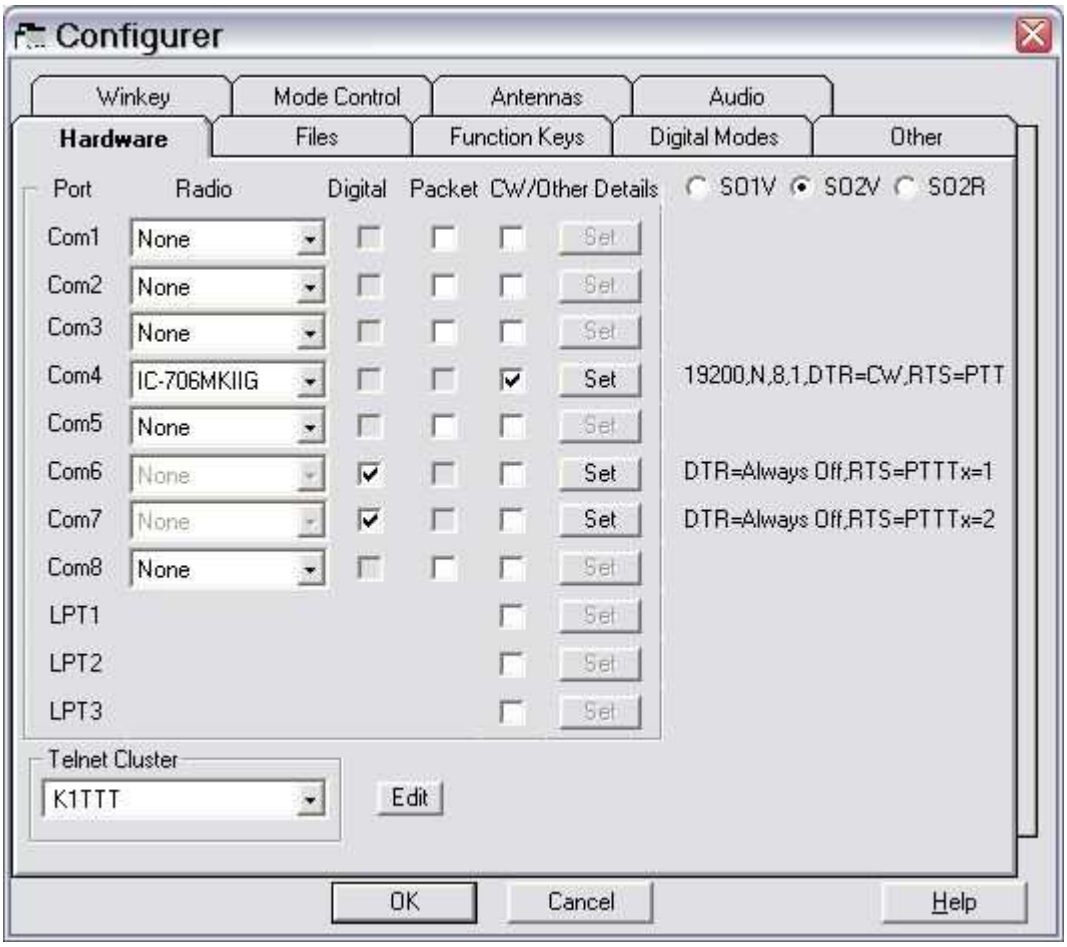
1. Assign a virtual COM port for radio control (CAT). Click the **Set** button, select the transceiver from the drop down box, set the Baud Rate and CI-V address if needed.
2. Assign PTT to the same port as you used for CAT and select the RTS line.
3. Assign CW to the same port as you used for CAT and select the DTR line.
4. Assign a port for FSK and check the PTT box. If you will not be using FSK, you can skip this step.

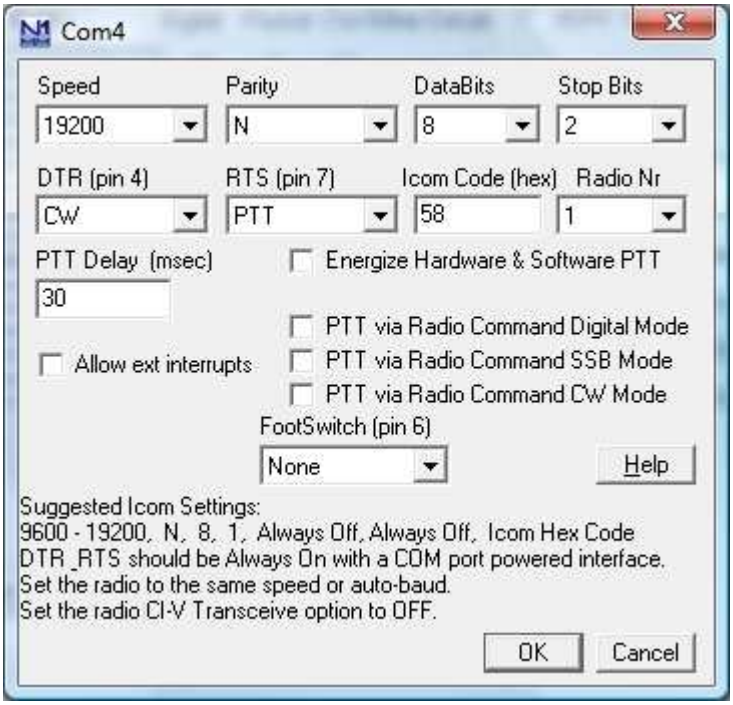


5. Save settings to a preset by selecting menu **Preset | Save as.** Choose a position and name it N1MM.

N1MM setup:

1. Click **Config| Configure Ports, Telent Addresses, Other …**





2. Assign the radio to the virtual COM port you created for CAT in Router's Ports tab
3. Assign Digital (FSK and 2nd FSK) to the virtual ports you created in Router.
4. On the radio port, click **Set** and set proper communication parameters for your transceiver.
5. Set RTS (pin 7) to PTT.
6. Set DTR (Pin 4) to CW.
7. **Uncheck** "Energize Hardware & Software PTT"
8. **DO NOT** check any of the "PTT via Radio Command" options.

9. Chick **Set** for the FSK port .

10. Configure the Digital ports taking care to associate each port with the correct Radio (Radio Nr) and Digital Interface (Dig Wind Nr) depending on whether your transceiver supports SO2V operation.

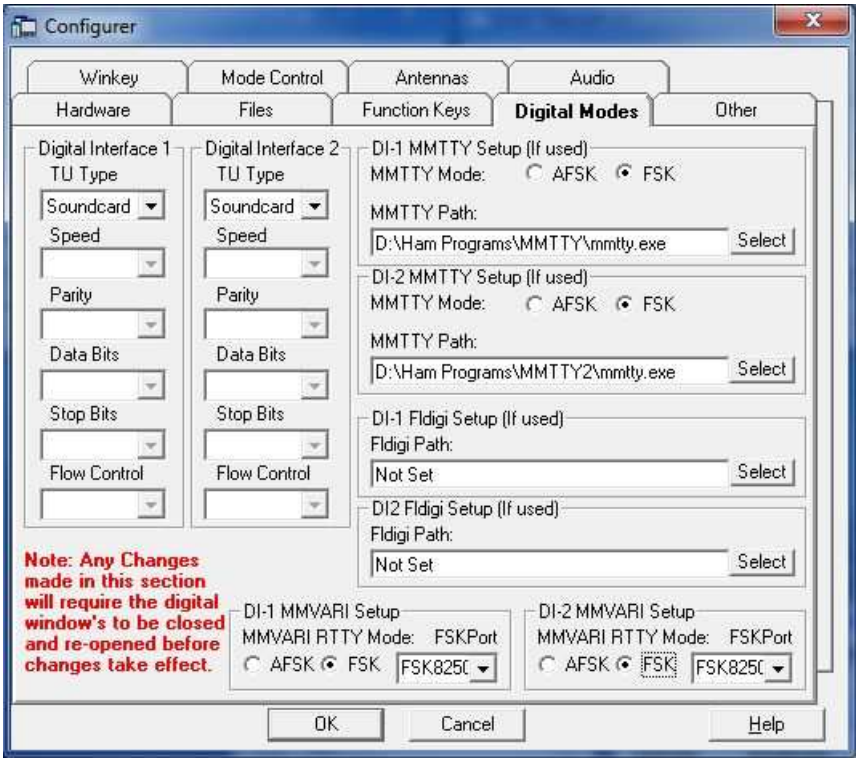
11. DigiKeyer does not support DVK operation.

    There is nothing to configure on the Audio Tab.

12. Click OK to close the N1MM Logger Hardware configuration dialog.

MMTTY setup (FSK):

N1MM Logger supports the MMTTY Engine, MMVARI and/or an external TNC for RTTY contesting. This configuration is based on using MMTTY in FSK mode.



1. Install MMTTY.

   Note: If your radio supports dual receiver (SO2V) operation, you may want to install MMTTY to two *different* directories on your hard disk.

2. Select the **Digital Modes** tab in the N1MM Logger Configurer.

3. Set TU Type to Soundcard

4. Select FSK as the MMTTY mode for DI-1 and DI-2.

5. Enter the path to each MMTTY installation.

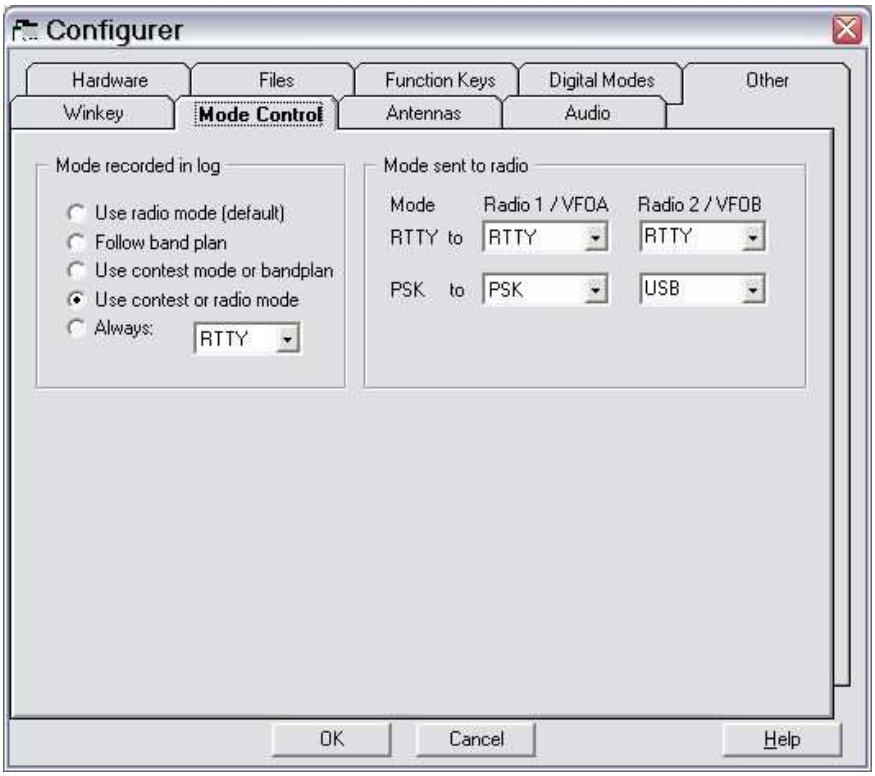
6. Open the **Mode Control** tab

7. Set the appropriate RTTY and PSK modes for your radio.

   Note: See the N1MM Logger Help files for the supported RTTY and PSK modes for your radios.

8. Set the method to determine the mode to log.

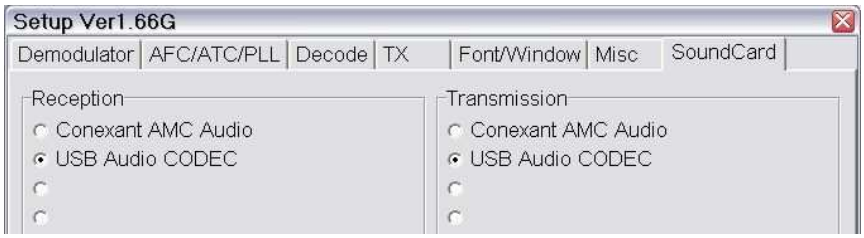
9. Click "OK" to save the settings and close the Configurer.



10. Activate the left Entry Window (Radio 1) and open the Digital Interface.

11. If this is the first time you have used the MMTTY interface, click on **Interface | MMTTY** to activate the MMTTY interface.

12. In the Digital Interface, Click **Setup | Setup MMTTY.**



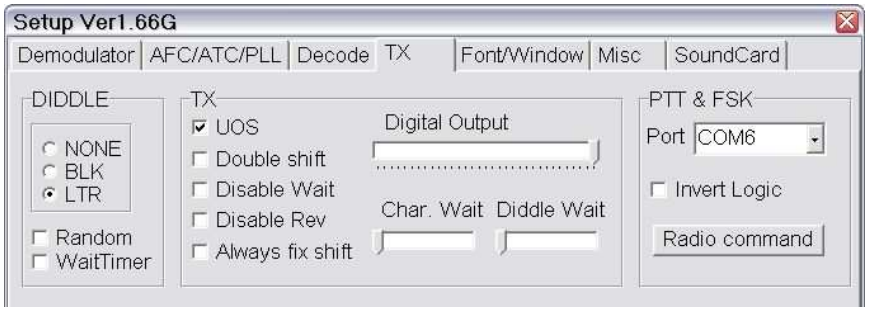
13. Select the "SoundCard" tab.

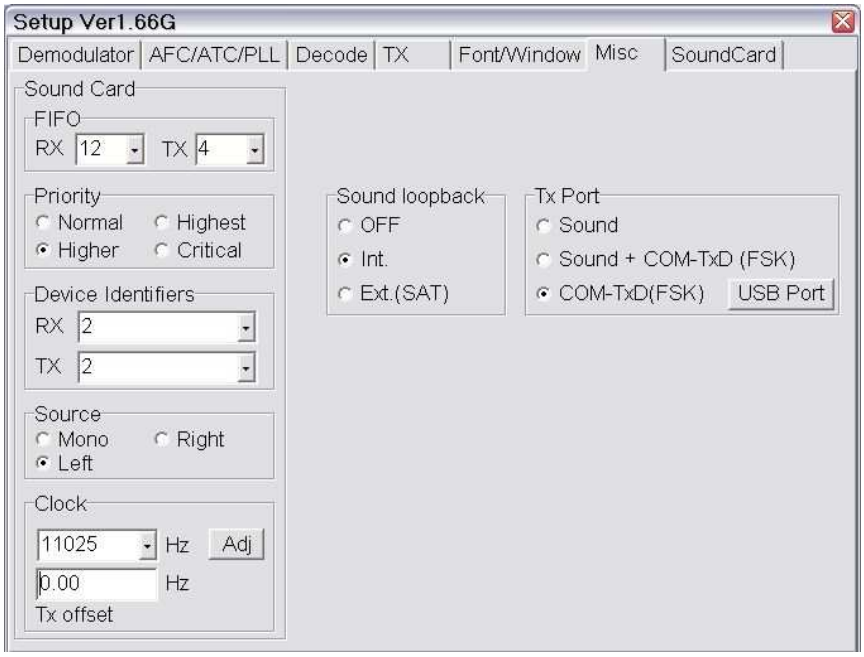
14. Select USB Audio CODEC for Transmission and Reception.

15. Select the TX tab

16. Set PTT & FSK to the port used for Router's FSK port.

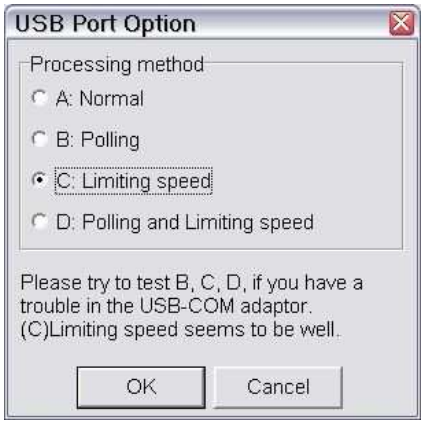
17. Select the Misc Tab





18. Select **Source = Left**

19. Set Tx Port to COM-TxD(FSK)



20. Click **USB port** button, choose **C: Limiting speed** and click OK

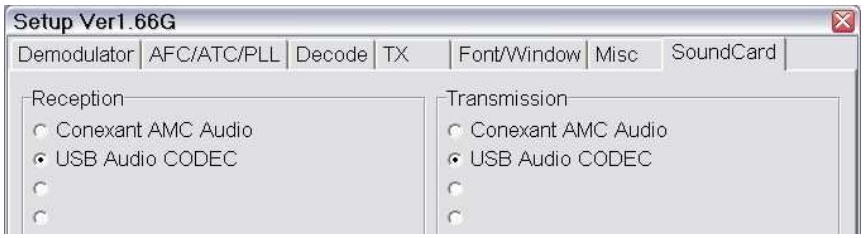
21. Click "OK" on the Misc tab to close the MMTTY Set-up for Radio 1

If your radio does not support Dual receive (SO2V) Operation, FSK configuration is complete.

22. Activate the right Entry Window (Radio 2) and open the Digital Interface.

23. Click on **Interface | MMTTY** to activate the MMTTY interface.

24. In the Digital Interface, Click **Setup | Setup MMTTY.**



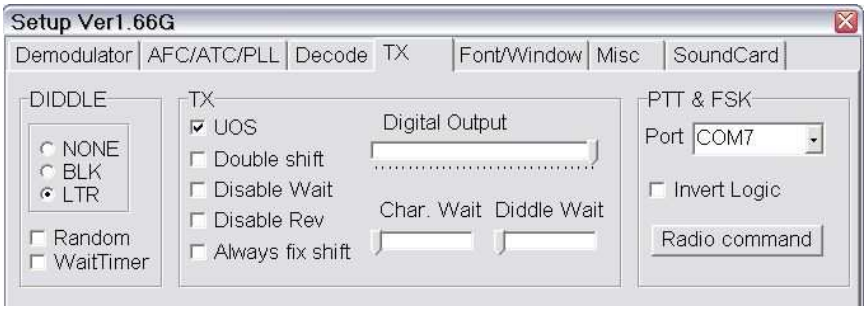
25. Select the "SoundCard" tab.

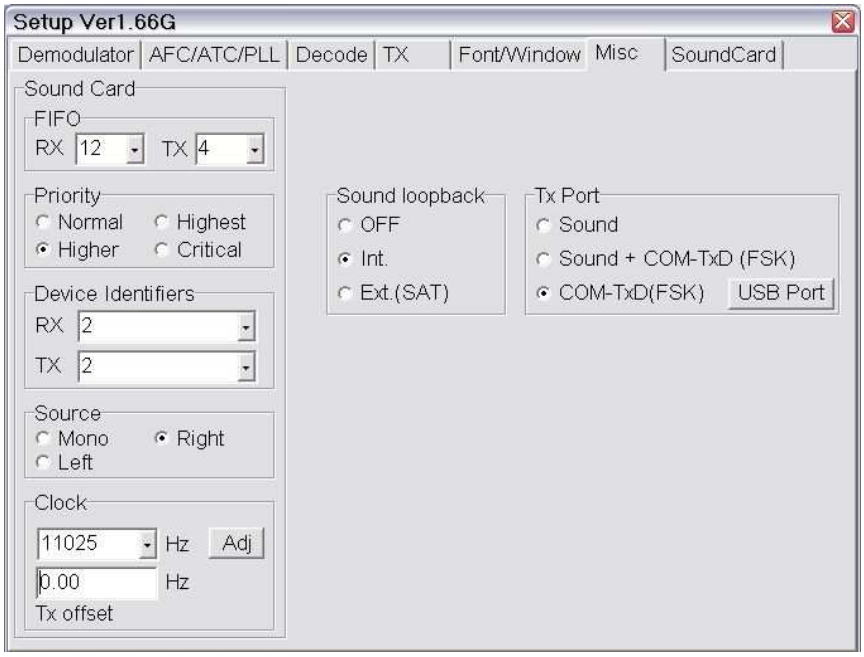
26. Select USB Audio CODEC for both Transmission and Reception.

27. Select the TX tab

28. Set PTT & FSK to Router's 2nd FSK Port.

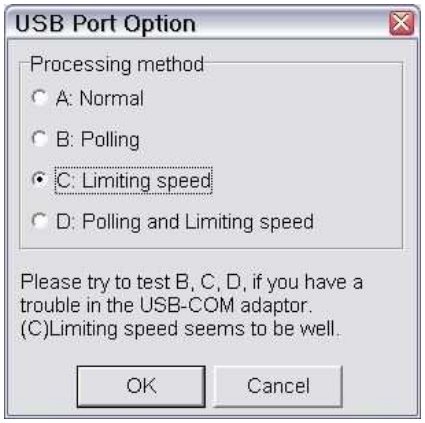
29. Select the Misc Tab





30. Select **Source = Right**

31. Set Tx Port to COM-TxD(FSK)



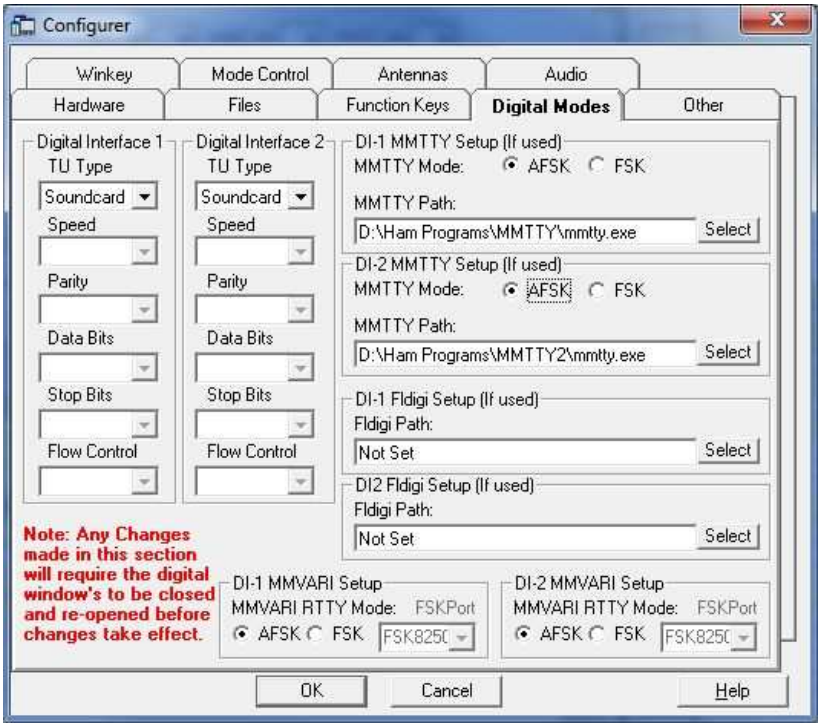
32. Click **USB port** button, choose **C: Limiting speed** and click OK

33. Click "OK" on the Misc tab to close the MMTTY Set-up for Radio 1

MMTTY setup (AFSK):

N1MM Logger supports the MMTTY Engine, MMVARI and/or an external TNC for RTTY contesting. This configuration is based on using MMTTY in AFSK mode.

AFSK does not require a digital port for each radio. If you will be using only AFSK and PSK, it is not necessary to define "Digital" ports on the N1MM "Hardware" tab or FSK ports in Router.



1. Install MMTTY.

   Note: If your radio supports dual receiver (SO2V) operation, you may want to install MMTTY to two *different* directories on your hard disk.

2. Select the **Digital Modes** tab in the N1MM Logger Configurer.

3. Set the TU Type to Soundcard

4. select AFSK as the MMTTY mode for both DI-1 and DI-2.

5. Enter the path to each copy of MMTTY.

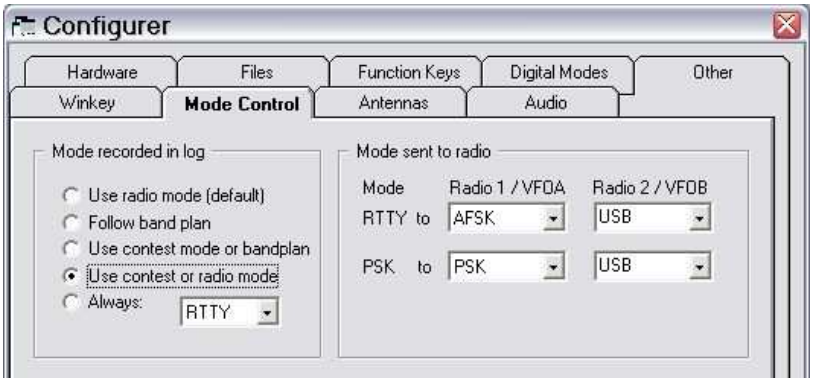
6. Open the **Mode Control** tab

7. Set the appropriate RTTY and PSK modes for each radio.

   Note: See the N1MM Logger Help files for the supported RTTY and PSK modes for your radios.

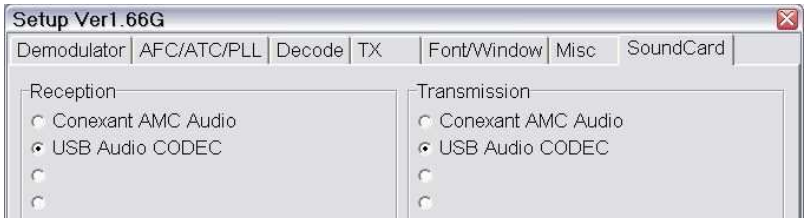
8. Set the method to determine the mode recorded in the log.

9. Save and Close the Configurer.



10. Activate the left Entry Window (Radio 1) and open the Digital Interface.

11. If this is the first time you have used the MMTTY interface, click on **Interface | MMTTY** to activate the MMTTY interface.



12. In the Digital Interface, Click **Setup | Setup MMTTY.**

13. Select the "SoundCard" tab.

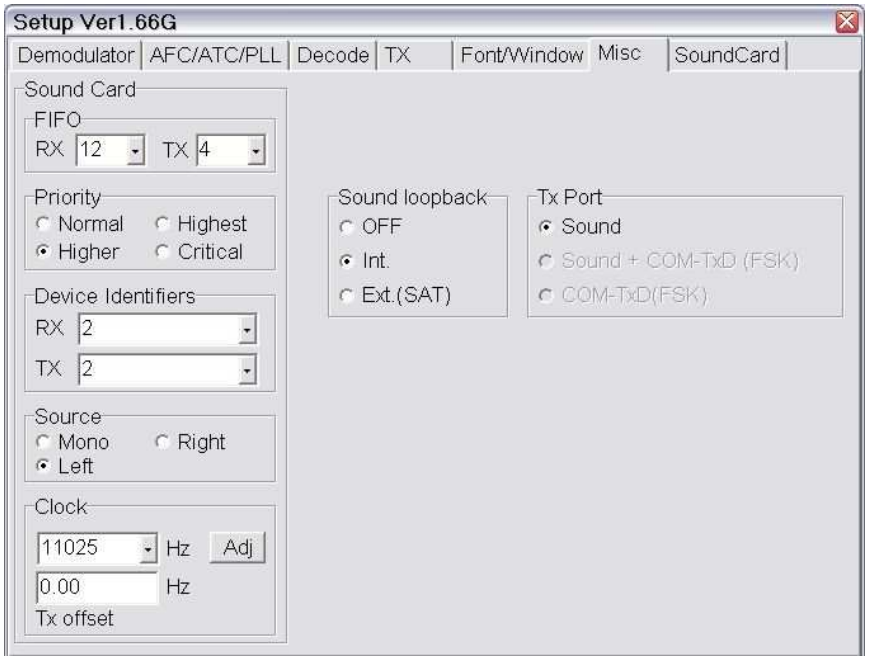
14. Select USB Audio CODEC for both Transmission and Reception.

15. Select the Misc Tab

16. Select **Source = Left**

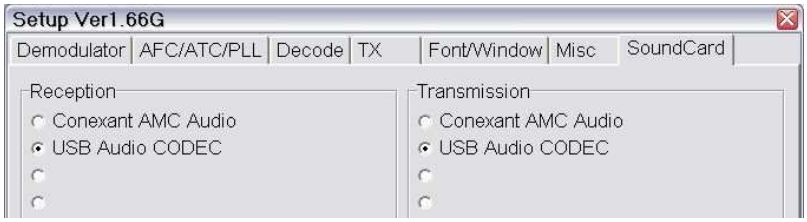
17. Set Tx Port to **Sound**.

18. Click "OK" to close MMTTY Set-up for Radio 1



19. Activate the right Entry Window (Radio 2) and open the Digital Interface.

20. Click on **Interface | MMTTY** to activate the MMTTY interface.



21. In the Digital Interface, Click **Setup | Setup MMTTY.**

22. Select the "SoundCard" tab.

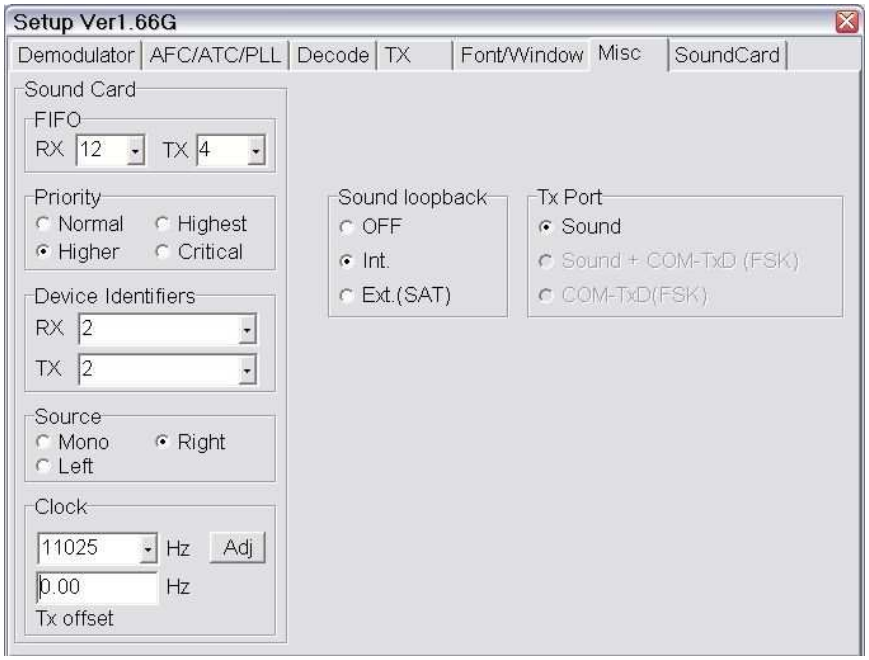
23. Select USB Audio CODEC for both Transmission and Reception.

24. Select the Misc Tab

25. Select **Source = Right**

26. Set Tx Port to **Sound**

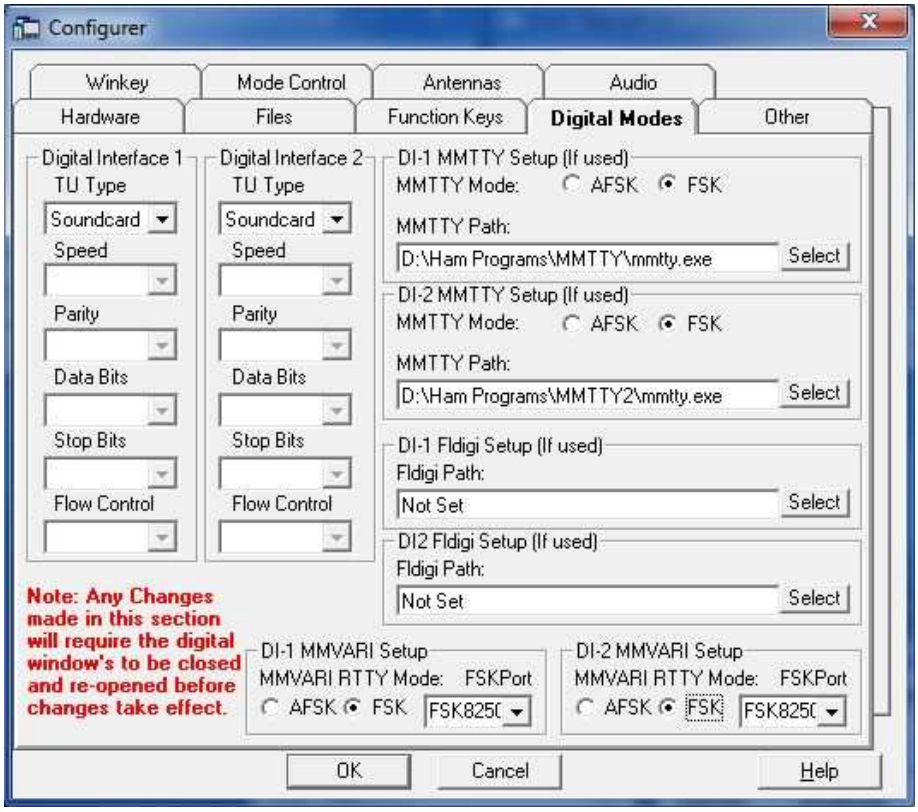
27. Click "OK" to close MMTTY Setup for Radio 2.



MMVARI Setup with FSK:

N1MM Logger supports the MMTTY Engine, MMVARI and/or an external TNC for RTTY contesting. This configuration is for **FSK RTTY** and PSK.

FSK requires use of a digital port for each radio. Be sure you have defined Digital ports for each radio in the N1MM "Hardware" tab and FSK ports in Router.

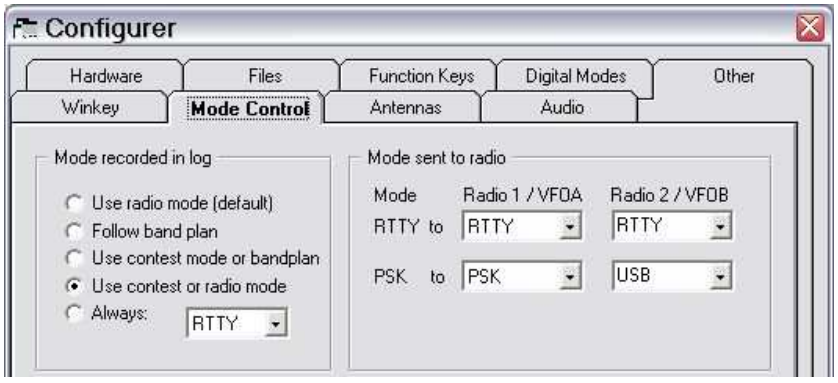


1. Select the **Digital Modes** tab in the N1MM Logger Configurer.
2. Set the TU Type to Soundcard
3. select FSK as the MMVARI RTTY mode for both DI-1 and DI-2.
4. Set the FSK Port to FSK8250 for both DI-1 and DI-2
5. Open the **Mode Control** tab

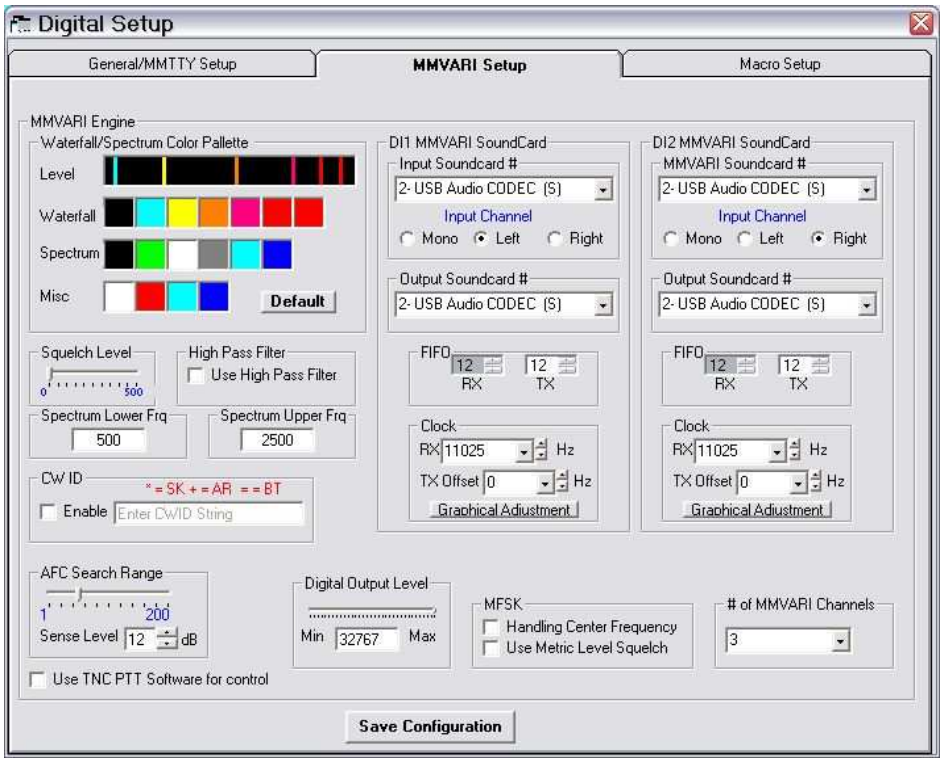
6. Set the appropriate RTTY and PSK modes for each radio.

   Note: See the N1MM Logger Help files for the supported RTTY and PSK modes for your radios.

7. Set the method to determine the mode recorded in the log.
8. Save and Close the N1MM Configurer.



9. Activate the left Entry Window (Radio 1) and enter PSK.
10. Click **Setup | Settings.** Select MMVARI as the Preferred RTTY Interface and Preferred PSK Interface.

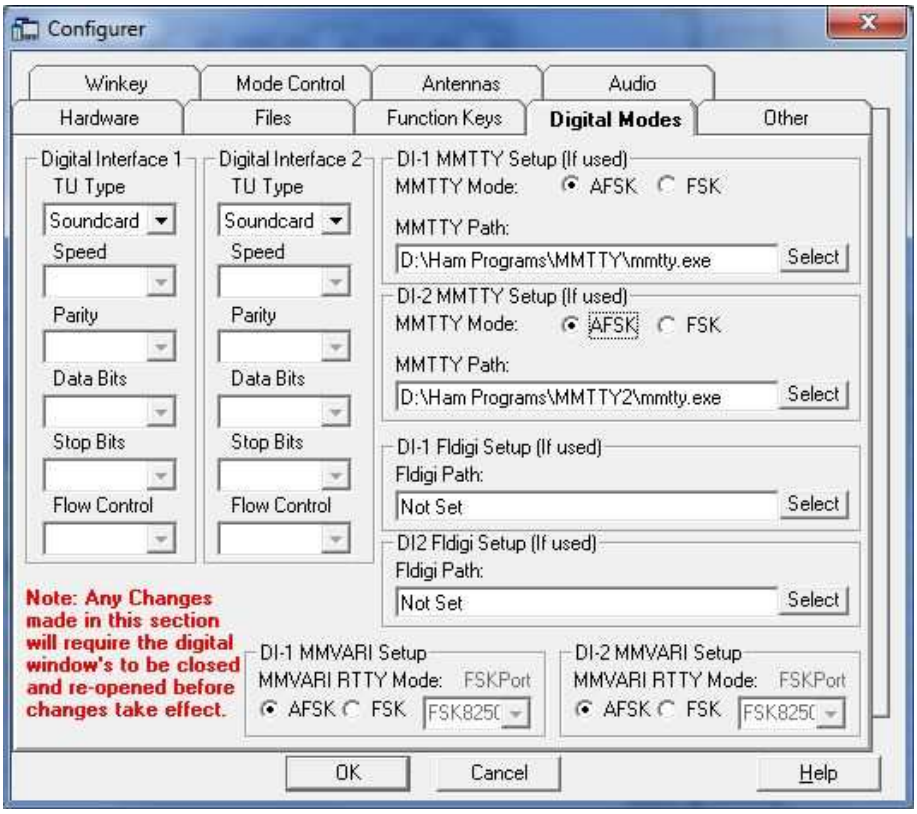


11. Select **MMVARI Setup.**
12. Set DI1 MMVARI Sound Card Input Soundcard # to "USB Audio CODEC" and select the **Left** Input.
13. Set DI1 MMVARI Sound Card Output Soundcard # to "USB Audio CODEC".
14. Set DI2 MMVARI Sound Card Input Soundcard # to "USB Audio CODEC" and select the **Right** input.
15. Set DI1 MMVARI Sound Card Output Soundcard # to "USB Audio CODEC"
16. Save the configuration.

MMVARI setup with AFSK:

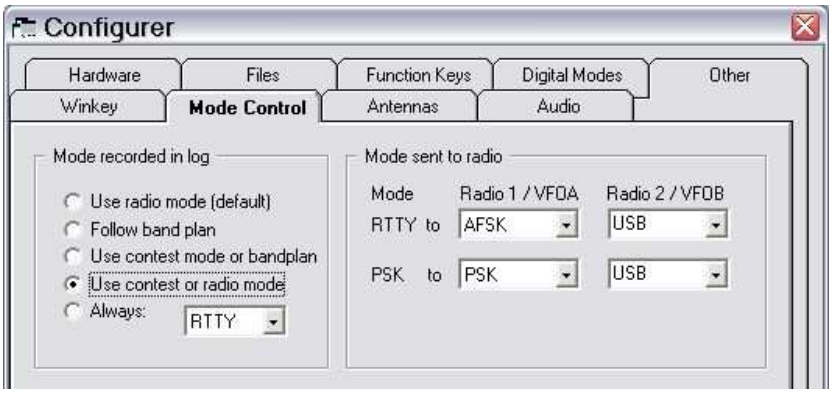
N1MM Logger supports the MMTTY Engine, MMVARI and/or an external TNC for RTTY contesting. This configuration is for **AFSK RTTY** and PSK.

AFSK and PSK do not require the use of a digital port for each radio. Do not configure a Digital Port in N1MM Logger or a FSK Port in Router.

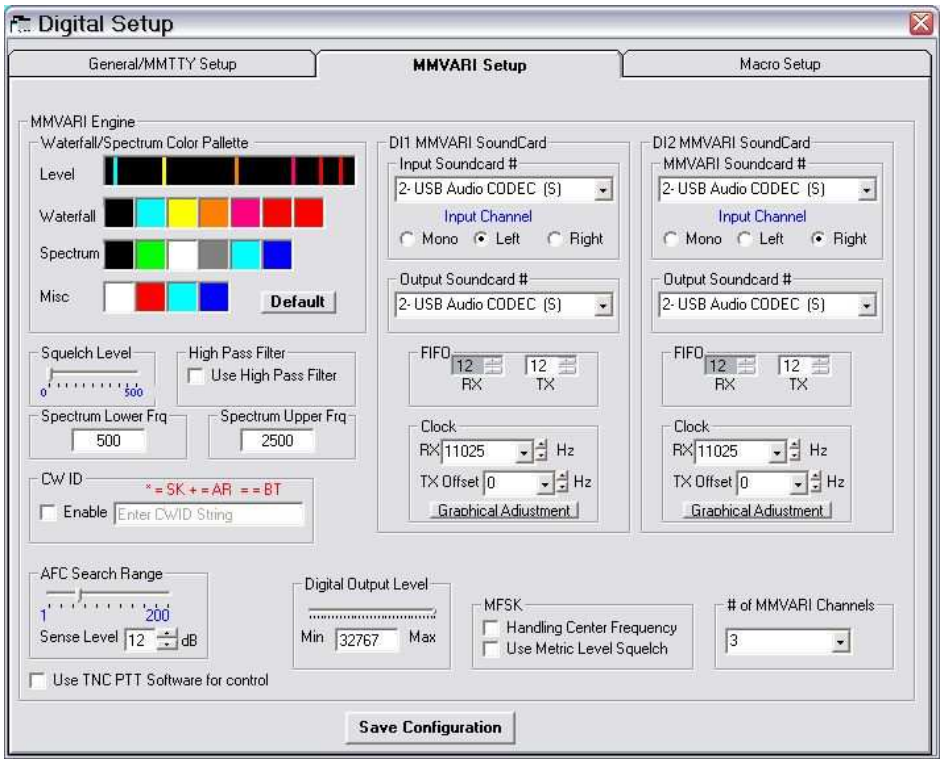


1. Select the **Digital Modes** tab in the N1MM Logger Configurer.
2. Set the TU Type to Soundcard
3. select FSK as the MMVARI RTTY mode for both DI-1 and DI-2.
4. Open the **Mode Control** tab
5. Set the appropriate RTTY and PSK modes for each radio.

   Note: See the N1MM Logger Help files for the supported RTTY (AFSK) and PSK modes for your radios.
6. Set the method to determine the mode recorded in the log.
7. Save and Close the N1MM Configurer.



8. Activate the left Entry Window (Radio 1) and enter PSK.
9. Click **Setup | Settings.** Select MMVARI as the Preferred RTTY Interface and Preferred PSK Interface.



10. Select **MMVARI Setup.**
11. Set DI1 MMVARI Sound Card Input Soundcard # to "USB Audio CODEC" and select the **Left** Input.
12. Set DI1 MMVARI Sound Card Output Soundcard # to "USB Audio CODEC".
13. Set DI2 MMVARI Sound Card Input Soundcard # to "USB Audio CODEC" and select the **Right** input.
14. Set DI1 MMVARI Sound Card Output Soundcard # to "USB Audio CODEC"
15. Save the configuration.