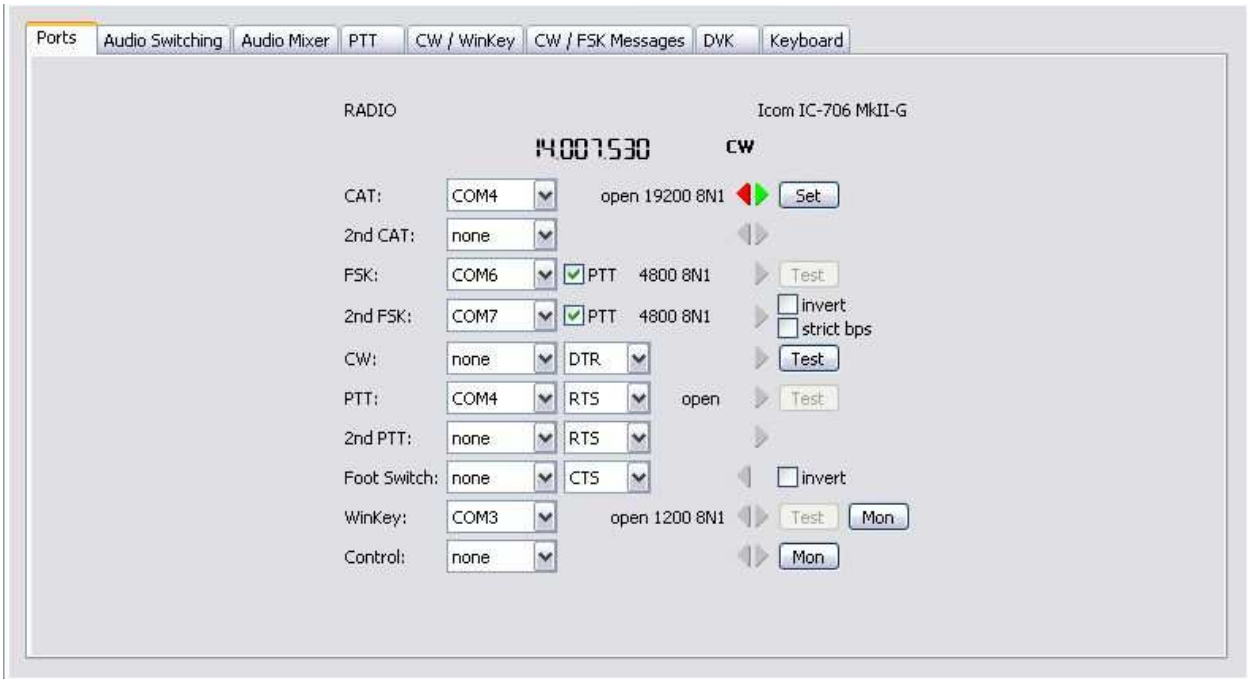
*micro*KEYER and N1MM Logger Setup

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.

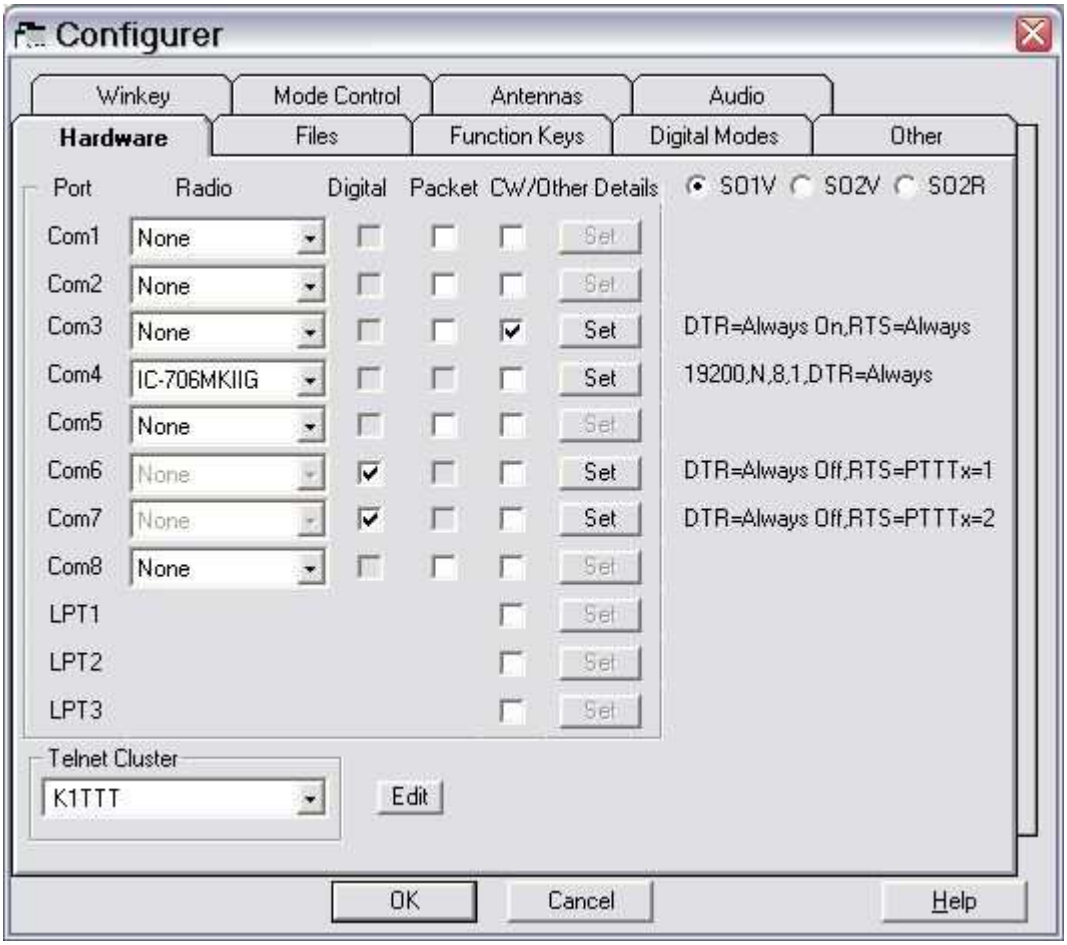
1. Assign a virtual COM port for radio control (CAT). Click the **Set** button, select the transceiver from the drop down box, set the Baud Rate and CI-V address if needed.
2. Assign PTT to RTS on the same ports as you used for CAT.
3. Assign a port for FSK and check the PTT box. If you will not be using FSK, you can skip this step.
4. Assign a port for WinKey. Select the appropriate PTT output and QSK or PTT operation on Router's PTT tab.

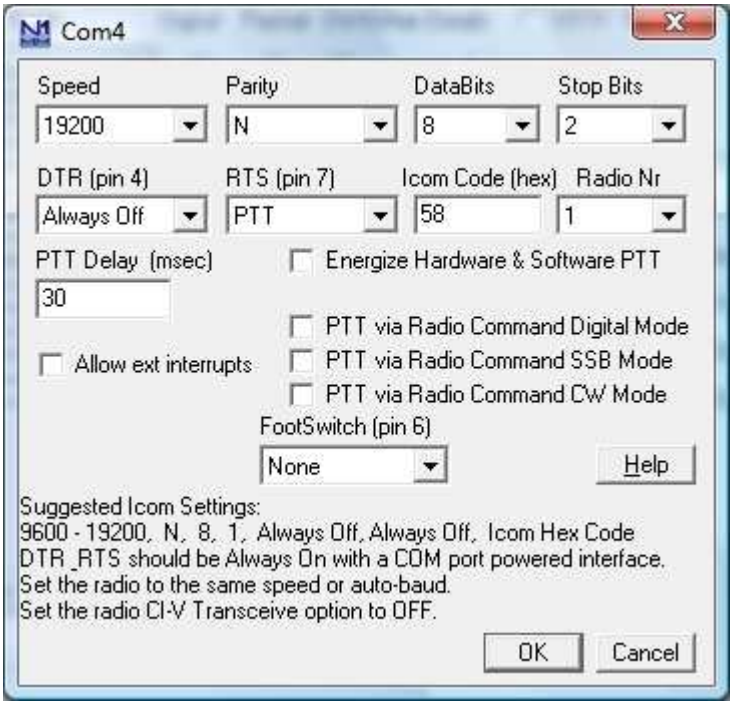


5. On the **Audio Switching** tab, set audio switching for CW, Voice and FSK/DIGITAL.
6. Set the appropriate PTT outputs for each mode and CW PTT or QSK on the the **PTT** tab.
7. Save settings to a preset by selecting menu **Preset | Save as.** Choose a position and name it N1MM.

N1MM setup:

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

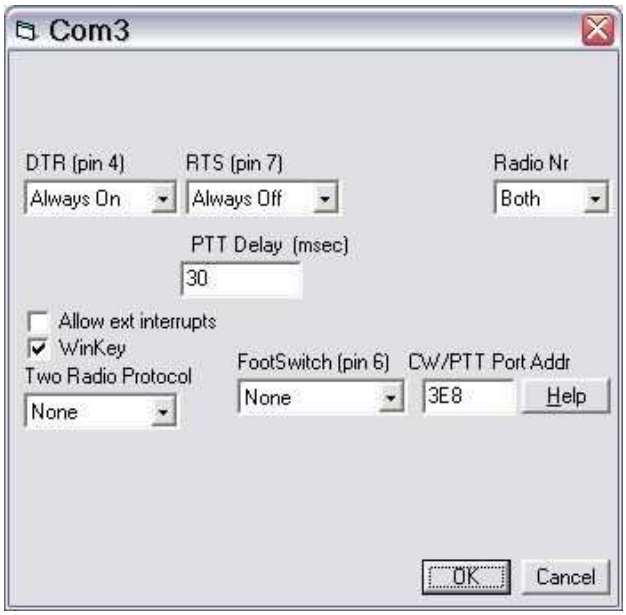




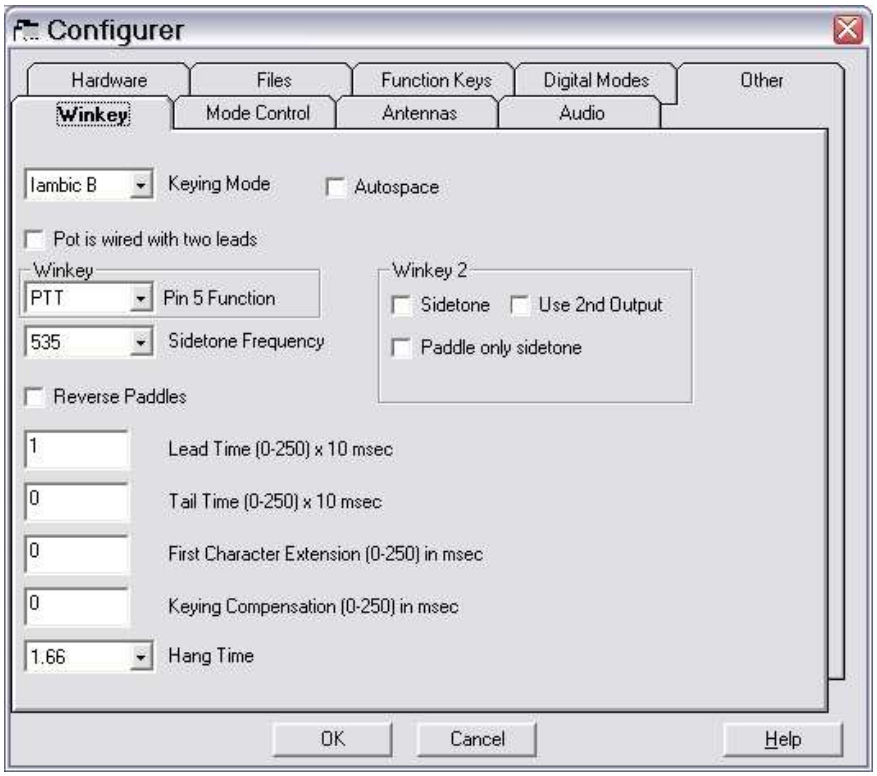
2. Assign the radio to the virtual COM port you created in Router's Ports tab
3. Assign Digital (FSK) to the virtual ports you created in Router
4. Enable WinKey on the port you created in Router.
5. For the radio port click **Set** and set proper communication parameters.
6. Set RTS (pin 7) to PTT.
7. Set DTR (Pin 4) to Always Off.
8. **Uncheck** "Energize Hardware & Software PTT"
9. **DO NOT** check any of the "PTT via Radio Command" options.

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

11. Set DTR to "always Off" and set RTS (pin 7) to PTT.



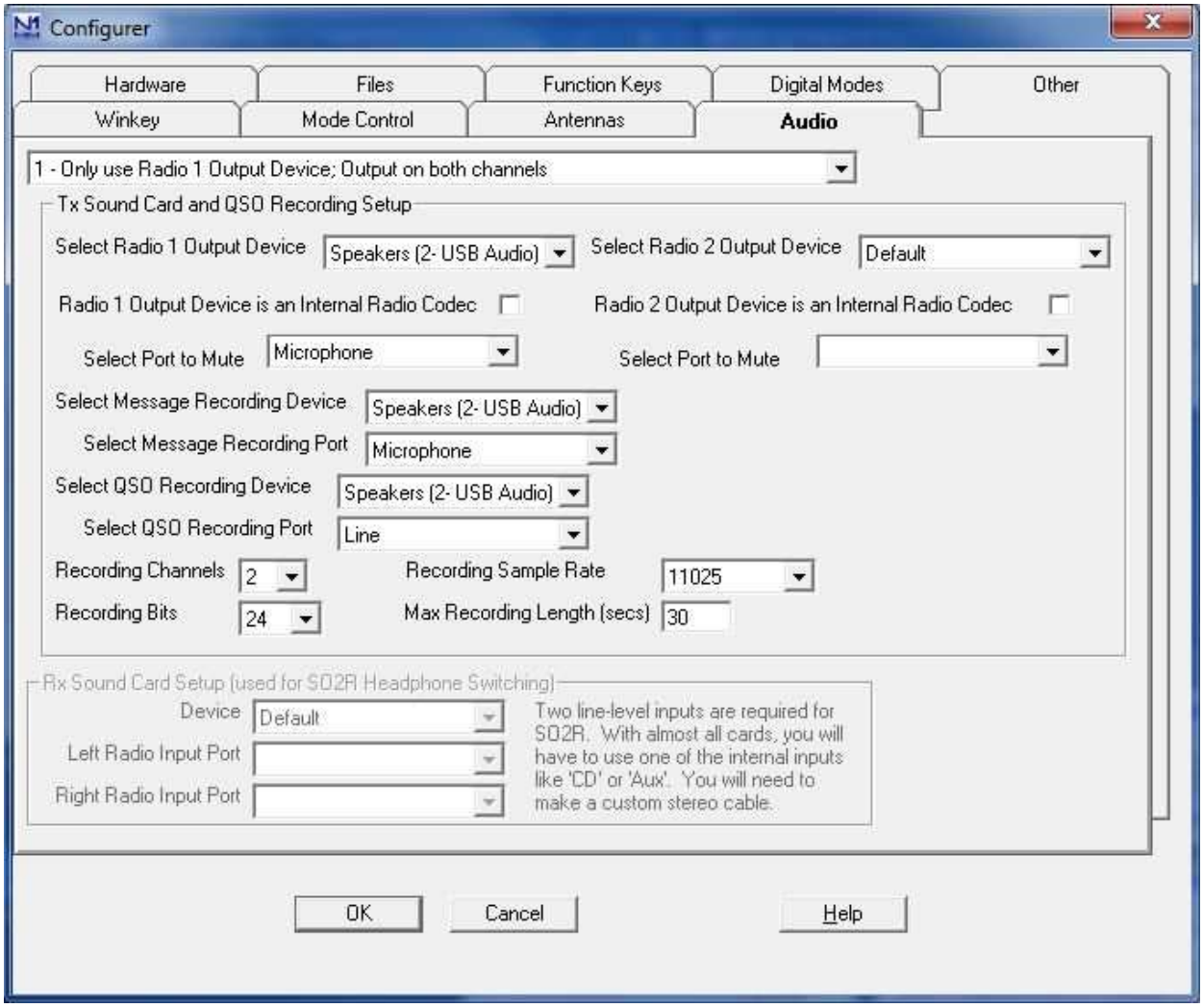
12. For the CW Port click **Set**, check the WinKey box and select Both radios.



13. Configure WinKey using the WinKey tab.

14. Pin 5 Function should be PTT.

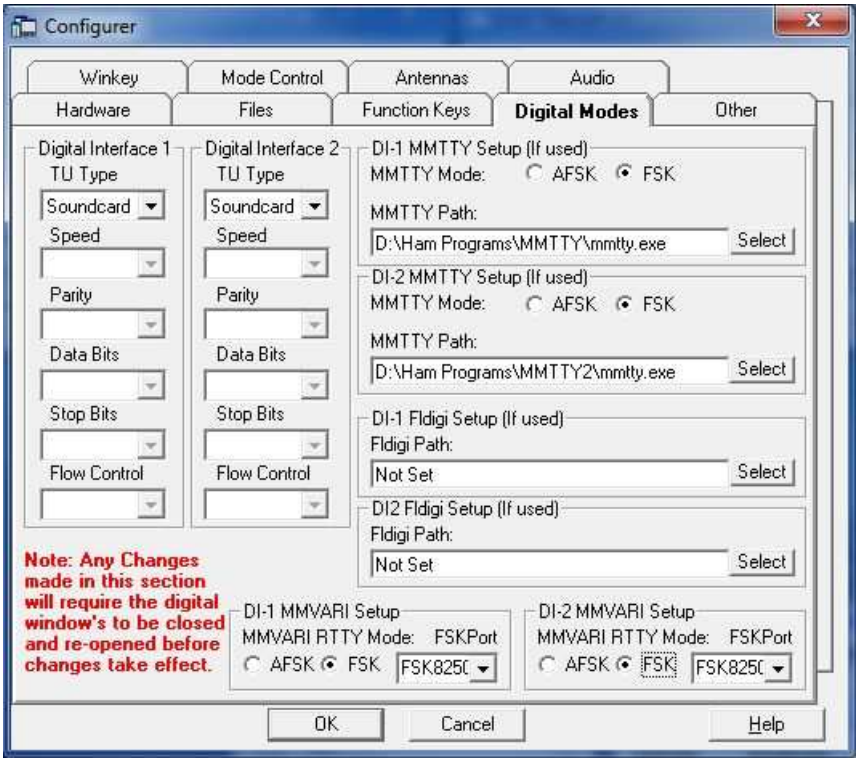
Note: Timing parameters are set on the CW/WinKey tab in Router. Router will override any settings made in N1MM Logger.



15. Configure Audio for "1 – Only use Radio 1 Output Device: Output on both channels.
16. Select the Sound Card connected to microKEYER as the Radio 1 Output Device and set "microphone" as the port to mute.
17. **Do Not** check either "Internal Radio Codec" box
18. Select the Sound Card connected to microKEYER as the Message Recording Device.
19. Select Microphone as the Message Recording Port
20. Select the Sound Card connected to microKEYER as the QSO Recording Device.
21. Select "Line" as the QSO Recording Port.
22. Set Recording channels to 1 (microKEYER supports only one channel).

MMTTY FSK setup:

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.

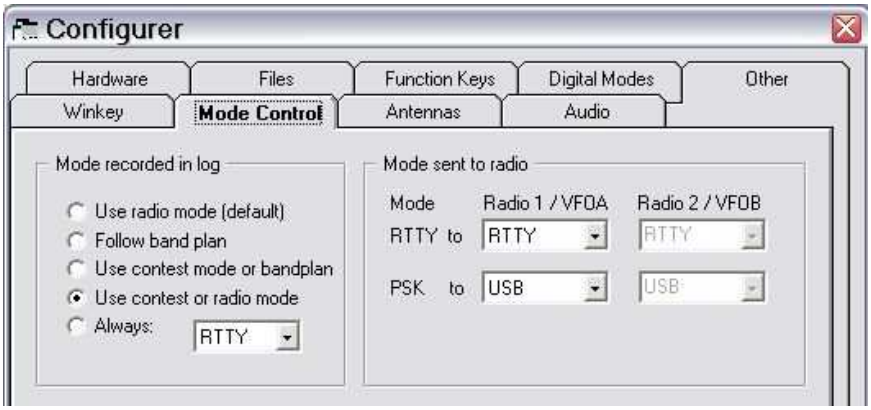


1. Install MMTTY on your computer if it is not already installed.
2. Select the **Digital Modes** tab in the N1MM Logger Configurer.
3. Set TU Type to Soundcard
4. Select FSK as the MMTTY mode for DI-1.
5. Enter the path to the MMTTY installation.
6. Open the **Mode Control** tab

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.

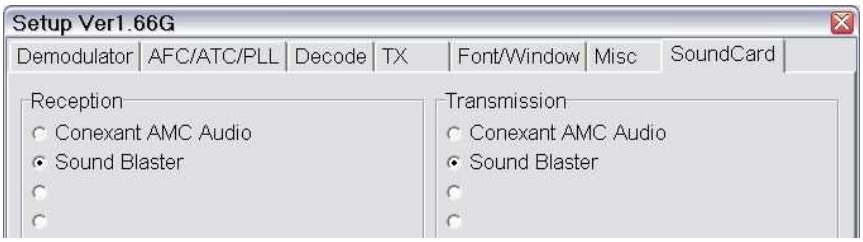


9. Click "OK" to save the settings and close the Configurer.

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.**



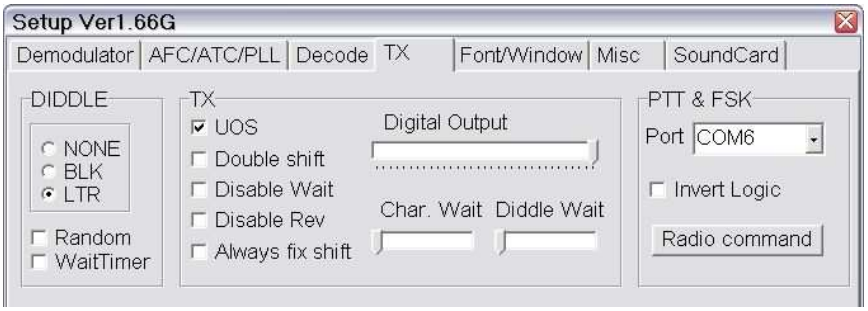
13. Select the "SoundCard" tab.

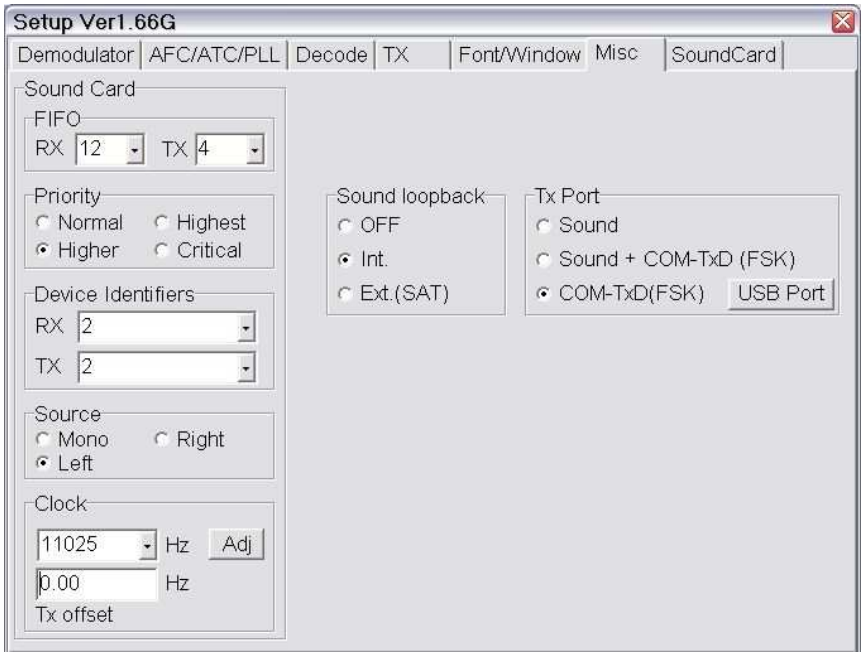
14. Select the sound card attached to microKEEYR II for both Transmission and Reception.

15. Select the TX tab

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

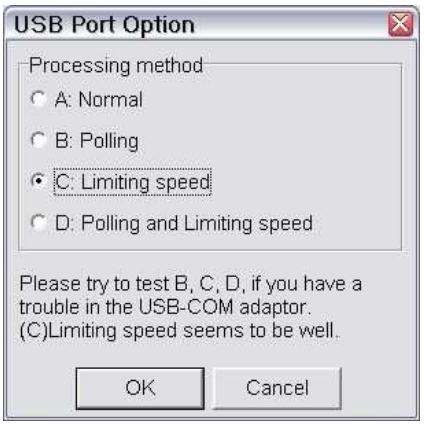
17. Select the Misc Tab





18. Select **Source = Left**

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



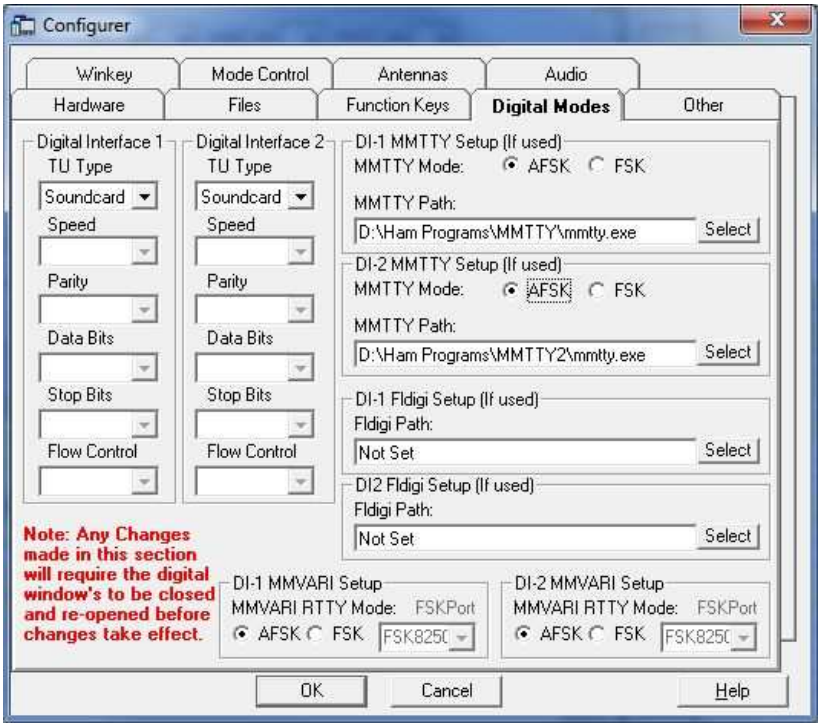
20. Click **USB port** button, choose **C: Limiting speed** and click OK

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

MMTTY AFSK setup:

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.

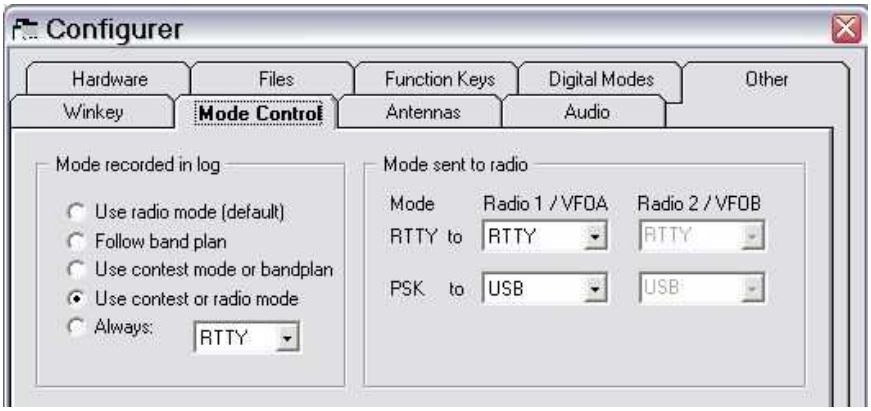


1. Install MMTTY on your computer if it is not already installed.
2. Select the **Digital Modes** tab in the N1MM Logger Configurer.
3. Set the TU Type to Soundcard
4. select AFSK as the MMTTY mode for DI-1.
5. Open the **Mode Control** tab

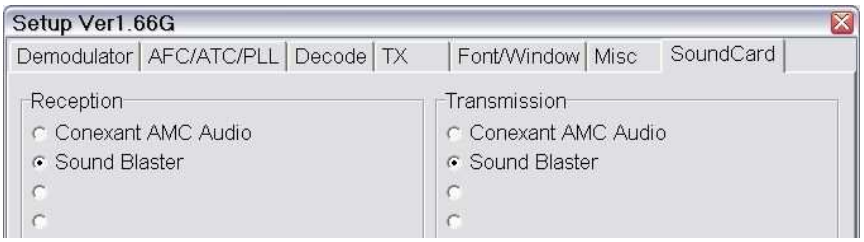
6. Set the appropriate RTTY and PSK modes for each radio.

   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 Configurer.

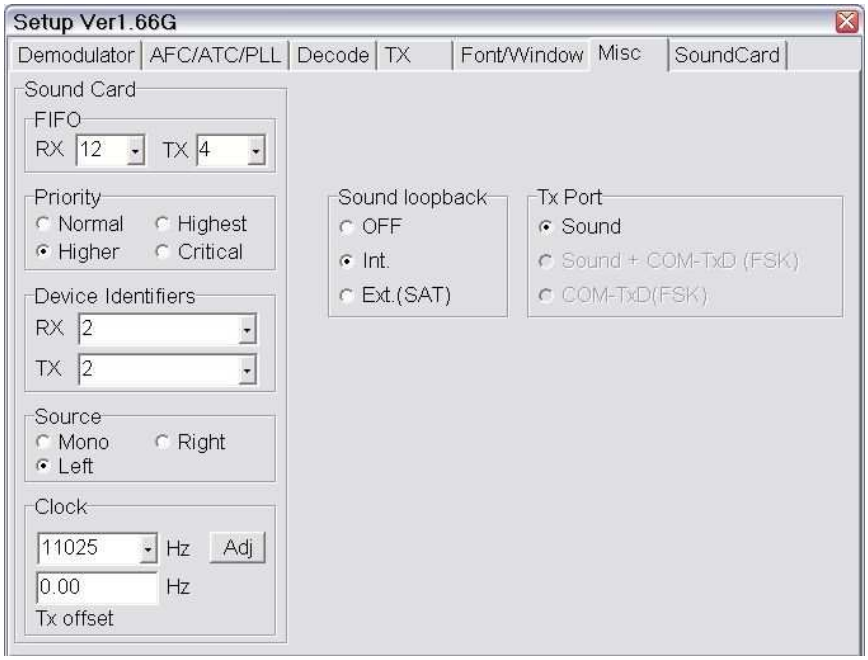


9. Activate the left Entry Window (Radio 1) and open the Digital Interface.
10. If this is the first time you have used the MMTTY interface, click on **Interface | MMTTY** to activate the MMTTY interface.



11. In the Digital Interface, Click **Setup | Setup MMTTY.**
12. Select the "SoundCard" tab.
13. Select the sound card attached to microKEYER for both Transmission and Reception.

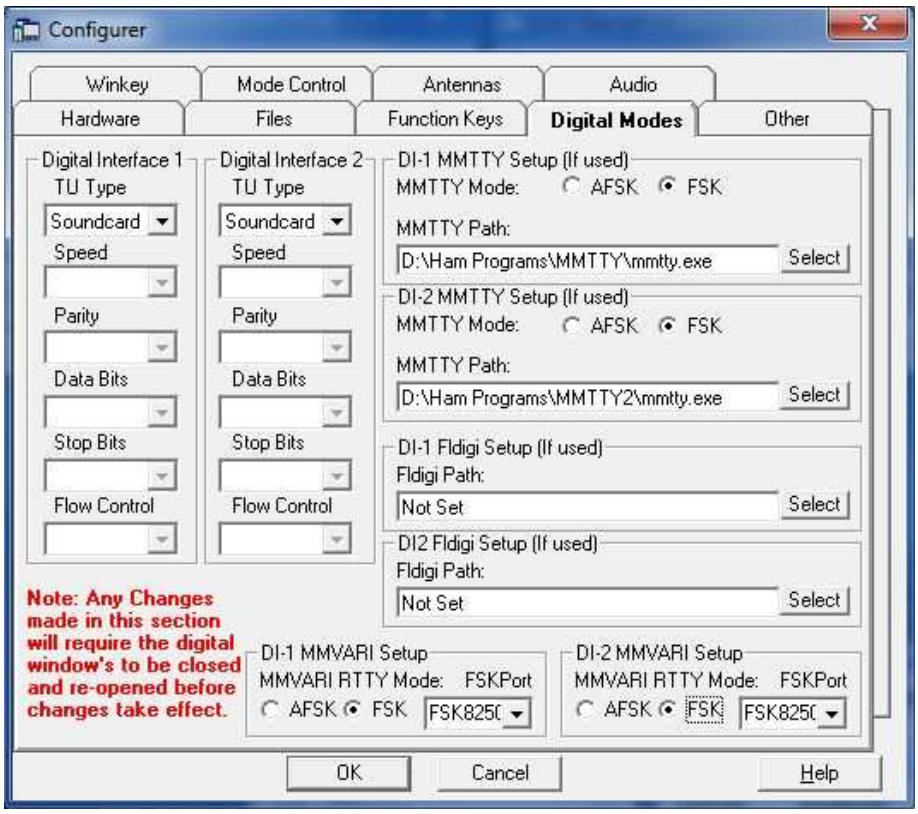
14. Select the Misc Tab
15. Select **Source = Left**
16. Set Tx Port to **Sound**.
17. Click "OK" to close MMTTY Set-up for Radio 1



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.

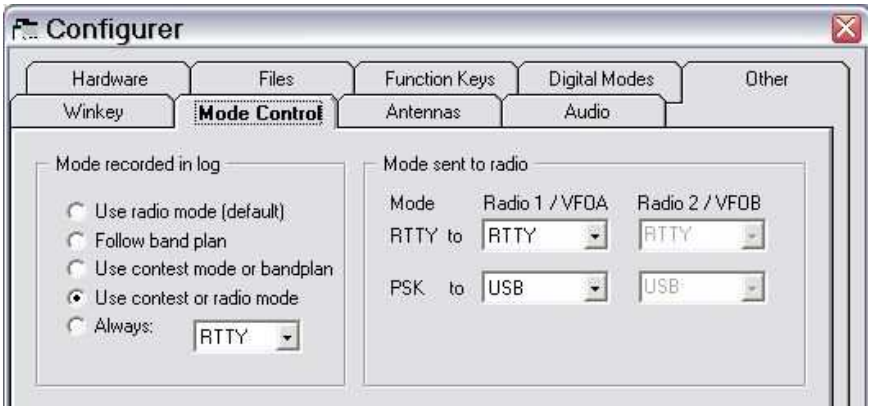
FSK requires use of a digital port for each radio. Be sure you have defined Digital ports for each radio in the N1MM "Hardware" tab and FSK ports in Router.



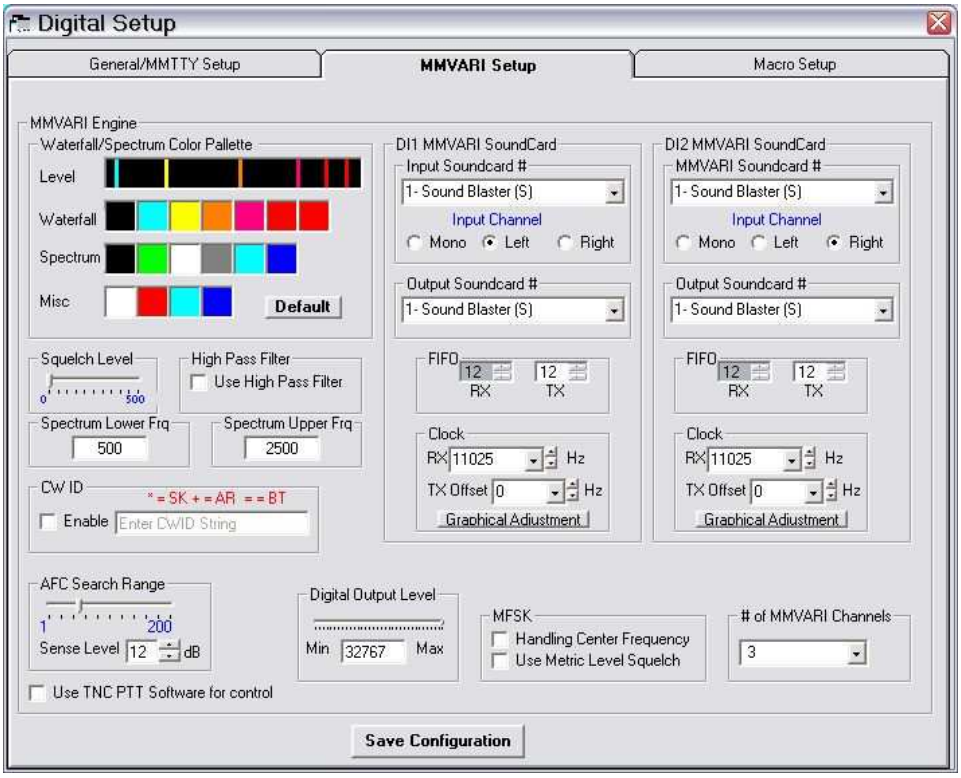
1. Select the **Digital Modes** tab in the N1MM Logger Configurer.
2. Set the TU Type to Soundcard
3. select FSK as the MMVARI RTTY mode for DI-1.
4. Set the DI-1 FSK Port to FSK8250.
5. Open the **Mode Control** tab

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.

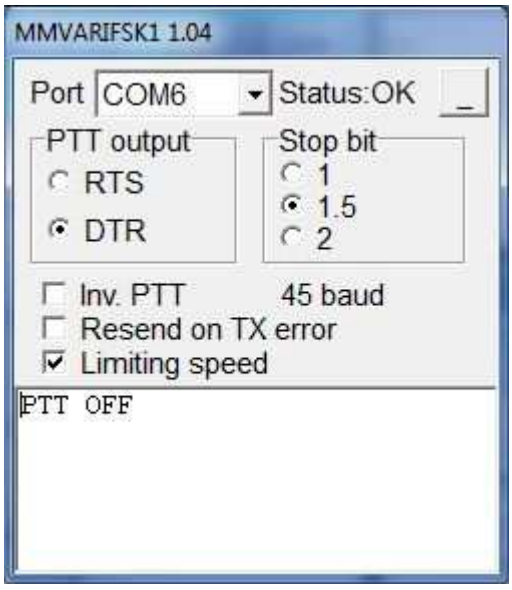


9. Activate the left Entry Window (Radio 1) and enter PSK.
10. Click **Setup | Settings.**



11. Select MMVARI as the Preferred RTTY Interface and Preferred PSK Interface.Select **MMVARI Setup.**
12. Set DI1 MMVARI Sound Card Input Soundcard # to the sound card attached to microKEYER and select the **Left** Input.
13. Set DI1 MMVARI Sound Card Output Soundcard # to the sound card attached to microKEYER.
14. Save the configuration.

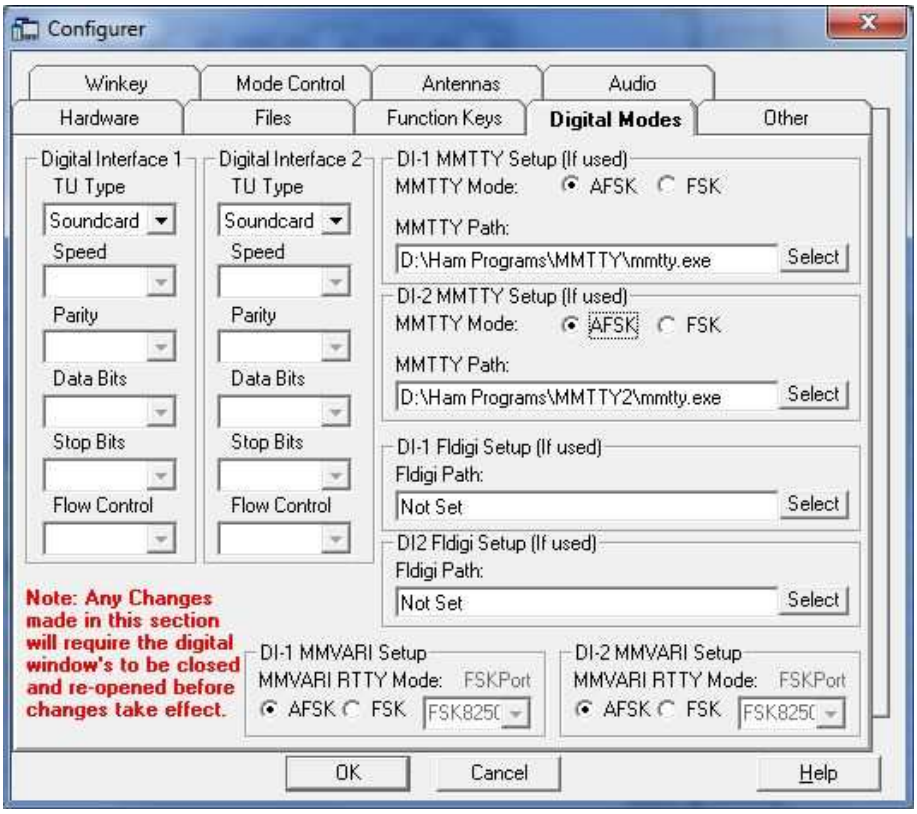
15. Select RTTY-L mode in MMVARI
16. Select the MMVARIFSK1 window from the Windows taskbar.
17. Select the Port you chose for Radio 1 FSK in Router
18. Set PTT output to RTS
19. Check Limiting Speed
20. Return the MMVARIFSK1 window to the taskbar.



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.

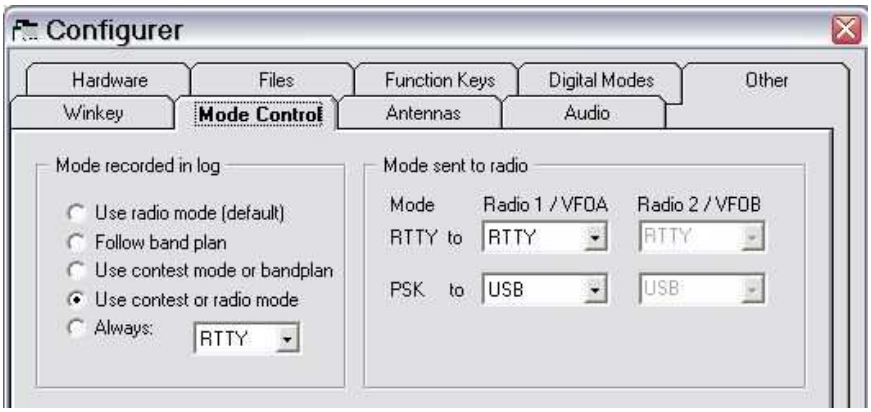


1. Select the **Digital Modes** tab in the N1MM Logger Configurer.
2. Set the TU Type to Soundcard
3. select AFSK as the MMVARI RTTY mode for DI-1.
4. Open the **Mode Control** tab

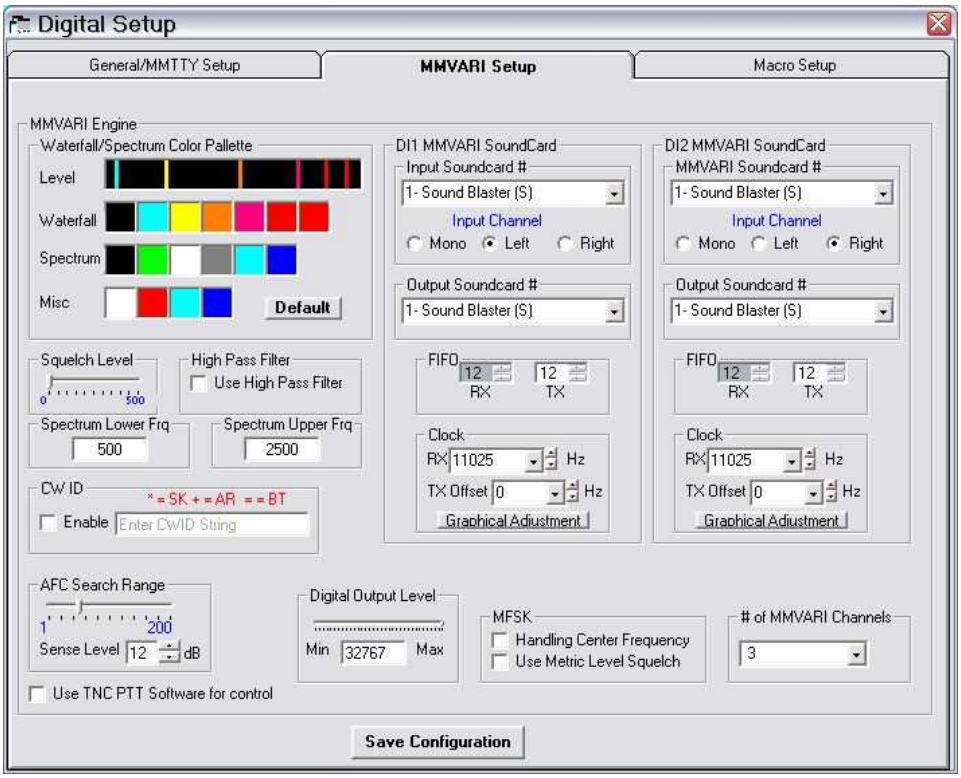
5. Set the appropriate RTTY and PSK modes for each radio.

   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 the sound card attached to microKEYER and select the **Left** Input.
12. Set DI1 MMVARI Sound Card Output Soundcard # to the sound card attached to microKEYER.
13. Save the configuration.