Setting up QUISK for VWS SDR

KK4DAS – 5/11/2025

1. Install python (add python to PATH, use admin privileges)
   1. [Python Release Python 3.13.2 | Python.org](https://www.python.org/downloads/release/python-3132/)
2. Install quisk:
   1. Run PowerShell (not PowerShell ISE)
   2. Confirm Python version:
      1. python –version
   3. Install quisk
      1. python -m pip install --upgrade pip  
         python -m pip install --upgrade setuptools  
         python -m pip install --upgrade wxPython  
         python -m pip install --upgrade pyserial  
         python -m pip install --upgrade quisk
3. Add a desktop shortcut. Right click on the desktop and select New -> Shortcut. In the popup windows enter “python -m quisk” and hit Next, on the next screen enter “Quisk” and press finish.
4. Install the VWS radio package in the quisk installation directory
   1. To find the quisk installation directory right click on the new shortcut and select “Properties”. Look for the “Start in” field. This is the Python installation directory. Here is what it looks like on mine:
   2. C:\Users\dsoul\AppData\Local\Programs\Python\Python313
   3. In your file manager navigate to that directory, then navigate to the folder “Lib/site-packages/quisk”. This is the Quisk installation directory.
   4. Copy the folder “vwsquisk” package from the project folder that you downloaded from github. Its in the folder ,,/code/VWS-Quisk.
5. ---- Configure Quisk
   1. To add the VWS SDR as a radio, click the Config Button, then select the Radios tab.
   2. In the Radios config panel, select the "Add a new radio with the general type", and select the VWS SDR item, name the radio "VWS" and click “Apply”
   3. Click “When Quist starts, use the radio” to VWS
   4. You should see a new Radio appear just below the title bar named "VWS". Click that item, and then select the Hardware tab. Enter the serial port name (in my case it was COM5).
   5. Click the Sound tab, and choose appropriate settings for "Radio Sound Output" and "Microphone Input". For Radio Sound Output choose whatever your default sound output is. To find the device to use for “Microphone Input” in Windows, open System -> Sound Settings and find the name of the Input device that shows up when you plug in your USB sound card or your default stereo microphone input if available. Back in Quisk select this on “Microphone Input”
   6. Verify that the sound rate for output and input are both 48000
   7. Scroll down… for “I/Q Rx Sample Input” change Channel I to 1, and Channel Q to 0
   8. Select the Waterfall button.
   9. Shutdown and restart Quisk for all changes to take effect and you should be up and running.
6. --- Troubleshooting
   1. If the COM port is not set right QUISK may not start. After configuration in the GUI QUISK settings are stored in your Documents folder in a file called: quisk\_settings.json. You can edit that file with Notepad and make any changes you need there. You can also delete all quisk files in the Documents folder and then start QUISK again and re-do the configuration steps.
   2. If QUISK fails to start you can run QUISK from a command prompt to see the error messages. Open a Command Prompt and enter:

**pythonw -m quisk**