Before you begin:

You must have Python installed on your computer. Python is usually installed by default on Linux (including Raspberry Pi) but not on Windows. To see if it is installed open a Command Prompt (Windows) or a terminal (Linux) and simply type ***python*** (all lower case). If you see a prompt of three arrows (>>>) then it is installed. Type ***quit()*** to return. If you don't see the prompt please try typing ***python2*** and ***python3***. (Depending on your installation it may be called one of these two names).

If Python is not installed please visit https://www.python.org/downloads/, the Python Foundation download page. There are other download sources, including Microsoft. You may find that there are two Pythons, 3.11 and 2.7 (sometimes referred to as Python3 and Python2). These instructions are for Python3. (Python2 will soon become obsolete).

Setup instructions:

1. Store *UDPRepeater.py* in a convenient directory on your computer.
2. The WSJT-X Monitor app has told you the IP address of your Android phone. Open *UDPRepeater.py* with any editor (such as Windows Notepad), go to line 6, and substitute the your phone's IP address for the 192.168.1.57 that is written there.
3. Open WSJT-X. Go to *Settings/ Reporting tab*. Set UDP Server to 127.0.0.1 and port to 2237 (the default).
4. Open a Command Prompt window (Windows 10) or a terminal (Linux), change to the directory in which you stored *UDPRepeater.py* and type "***UDPRepeater.py***" (Windows) or "***./UDPRepeater.py***" (Linux). Data should now flow to both your Android device and your desktop app.
5. To terminate *UDPRepeater* simply close the Command Prompt or terminal window.

For your understanding:

What we're doing is telling WSJT-X to send data to the *UDPRepeater* script. *UDPRepeater* will then "repeat" it to your Android devices and any desktop app such as GridTracker.

This setup only has to be done once. After that, start this Python script every time you start WSJT-X. In other words, repeat step 4 above.

Within the script, lines 6-9 have this format:

txAddress1 = ('**192.168.1.57**', **2237**)

The first set of numbers (192.168.1.57 in this example) is the IP address. The second number (2237) is the port. With this in mind, lines 6-9 are the IP address and port where the data is *sent* (the Android device and any desktop app) and line 5 is the IP and port where the script will *receive* data from WSJT-X. Feel free to change these as needed.

Details and more information:

- ***Steps 3*** – This is where we set WSJT-X to send data to the *UDPRepeater* script. The IP and port entered into WSJT-X *must match* line 5 of *UDPRepeater.* As mentioned, line 5 tells the script where to listen.
- In the Python script, any line beginning with pound sign (#) is a comment and has no effect on the script.

Even more details:

- The *UDPRepeater* script is very basic. If you are inclined, you can easily modify it to send data to more Android devices, such as a third phone or a tablet. For assistance see to the comments in *UDPRepeater* (lines beginning with a '#'). Or contact us.
- You can use *UDPRepeater* to send data to other computers, not just Android devices.
- The IP address 127.0.0.1 always means "this computer". If you want to *send* messages to 127.0.0.1 using this script please contact us. A small addition is required.