

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 *UDPRepeater2.py* in a convenient directory on your computer.
2. The WSJT-X Monitor app has told you the IP address of your Android phones. Open *UDPRepeater2.py* with any editor (such as Windows Notepad), go to line 48, and substitute the first phone's IP address for the 192.168.1.57 that is written there. Similarly, on line 49 substitute the second phone's IP address for 192.168.1.211.
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 "**UDPRepeater2.py**" (Windows) or "**./UDPRepeater2.py**" (Linux). Data should now flow to both of your Android devices.
5. To terminate *UDPRepeater2* simply close the Command Prompt or terminal window.

For your understanding:

What we're doing is telling WSJT-X to send data to the *UDPRepeater2* script. *UDPRepeater2* will then "repeat" it to all of your Android devices.

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 48-53 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 48 and 49 are the IP address and port where the data is sent (the Android devices) and line 45 is the IP and port where the script will receive data from WSJT-X. Feel free to change these as needed (anything after a '#' is a comment so lines 50-53 are not used).

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 45 of *UDPRepeater2*. As mentioned, line 45 tells the script where to listen.

Even more details:

- The *UDPRepeater2* script can be 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 *UDPRepeater2* (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.