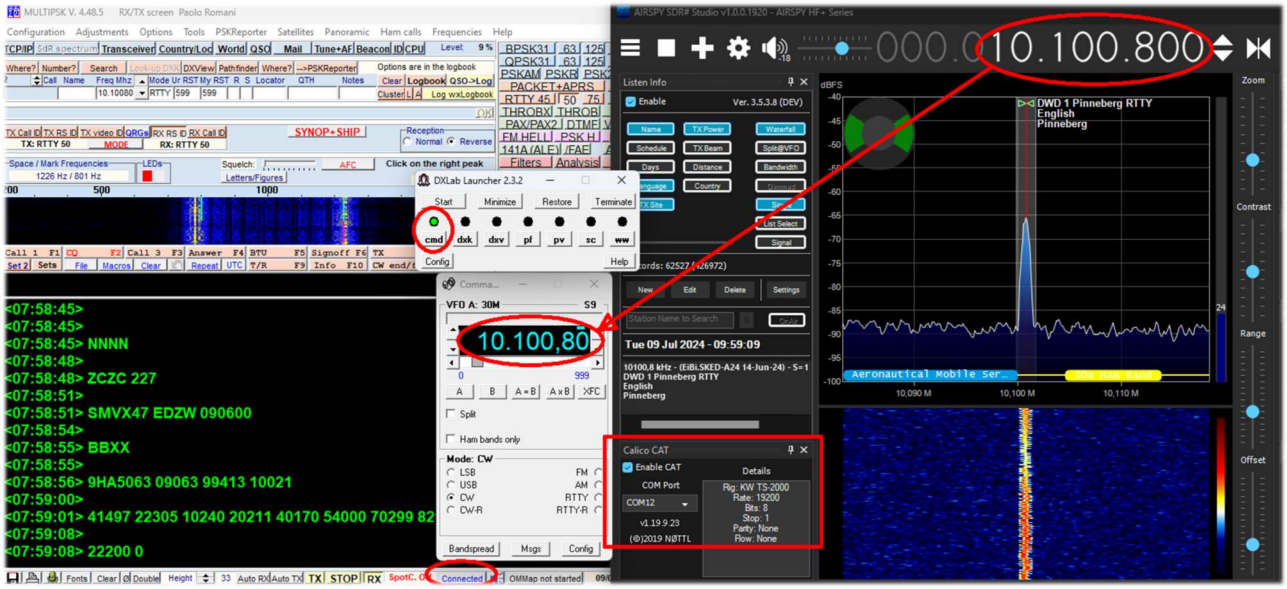
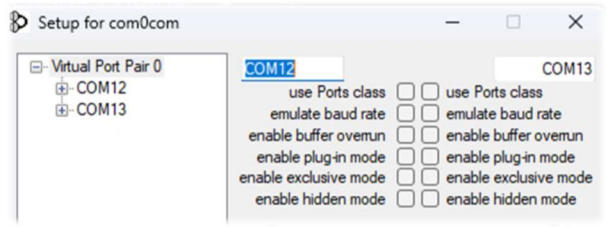
DXLab Commander
Airspy HF+ Discovery and MULTIPSK

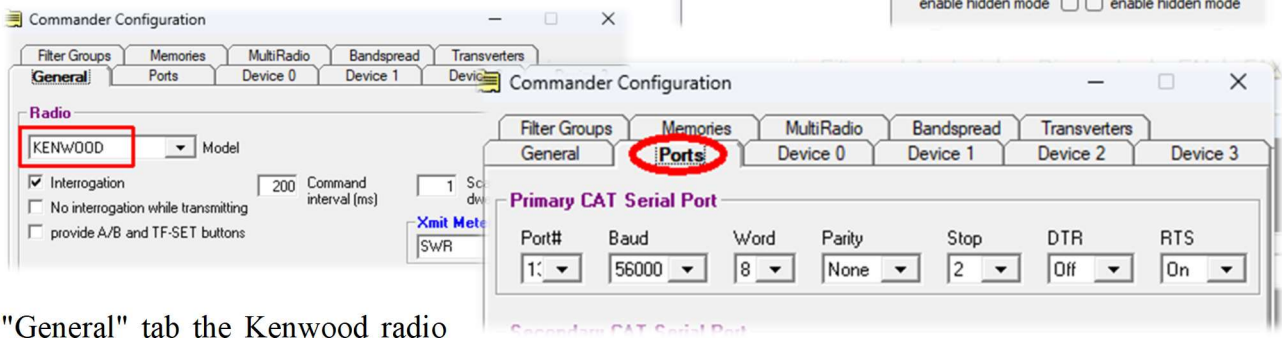
In this “recipe” I want to mention the integration between several software packages that all work beautifully together… many of which I have already covered elsewhere in this Guide using them for a long time.
These are the packages needed, plus the Airspy HF+ Discovery (or R2) with “Calico CAT” plugin:

- DXLab Commander ***https://www.dxlabsuite.com/commander***
- MULTIPSK by Patrick Lindecker (F6CTE) ***http://f6cte.free.fr/index_anglais.htm***
- Com0Com ***https://com0com.sourceforge.net/***
- Virtual Audio Cable



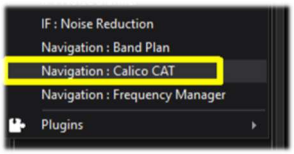
Let's start with the first: DXLab is a freeware suite of several interoperating applications that can be installed independently. When multiple applications are running, they detect each other's presence and automatically interoperate to support ham radio DXing activities. Here we will limit ourselves to just "Commander," which can be installed free from the above link.
On my PC there is already "Com0Com" for the creation and use of virtual serial ports, in my case for example with **COM12** and **COM13** as can be seen here on the side. At this point we start and configure "DXLab Commander" and set in the



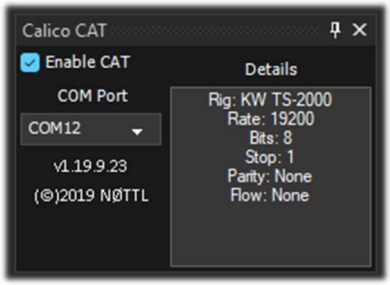


"General" tab the Kenwood radio with the following parameters in the "Ports" tab: Port 13, Baud 56000, Word 8, Parity None, Stop 2, DTR Off, RTS On. **(Note here the COM13)**

Now everything is ready to start SDR# with "Calico CAT," which since version v1920 of SDR# has been part of the standard "Navigation".



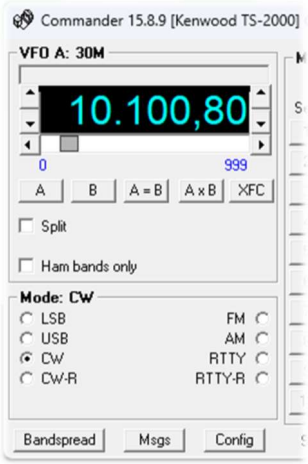
Instead, for versions prior to v1920, it must be entered manually in the Plugins folder (downloadable free from the "Community Package Installer" by ***Rodrigo Pérez***).



Here you configure **COM12** and enable the "Enable CAT" option. Close everything and then run the following programs in that exact order for the right internal connections:

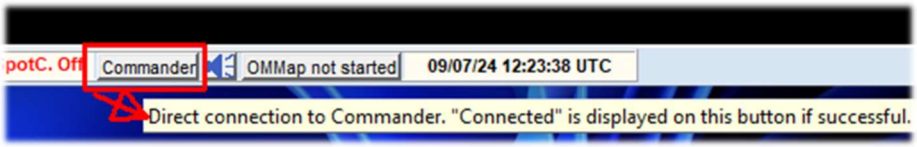
1. DXLab Commander (via the DXLab Launcher)
2. MULTIPSK
3. SDR#

Pressing the "cmd" button will launch the Commander which will allow dialogue via the "Calico CAT" plugin and SDR# on the virtual ports COM13 and 12. When the connection is established, the LED will change from red to green and the main Commander panel will start, which will report VFO indications and emission mode.



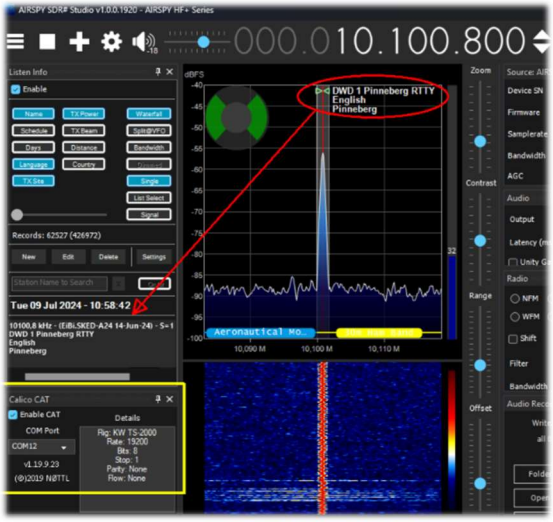
Next, by changing in SDR# the frequency (or mode) these will be automatically received in Commander via a DDE connection.

In turn, MULTIPSK interfaces via the "Commander" button on the bottom. Simply press it to initiate the connection.



The button at this point will indicate

The VAC-Virtual Audio Cable will carry the audio to MULTIPSK for appropriate decoding (in the following example of the Pinneberg weather station in RTTY at 50 baud/ reverse). The VAC must be previously selected in the "Sound Card (input)" menu of the configuration screen while in SDR# on the audio (output) "Line 1 VAC."



Another integration that I think is important is that of SDR# with the "Listen Info" plugin to have the received station name and other informations directly on the waterfall, spectrum or in table with data taken for example from the EIBI list. Of course DXLab Commander and MULTIPSK can be interfaced to other SDRs and also analog rtx with appropriate configurations.