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# Saguaro Construction Note #20

12/7/24

**Software Update – Rev A.01.11**

This software release adds these features:

\* Adds S-meter on/off function by clicking meter

\* Saves and recalls current frequency/mode memories

Note: memories are saved to a file called “saguaro\_memories.txt”

If not present, it is created when the program exits.

An example of the file is included in the zip file for reference. You do not need to install it.

To install:

1. Save the zip file to a convenient place on a PC (not Saguaro)
2. Extract the three files (sw\_rx.py, sw\_rx\_globals.py and stream\_sdr\_to\_audio.py)
3. Copy the three files to a flash drive
4. Eject the flash drive
5. Turn on Saguaro
6. Exit the Saguaro program if it is running by clicking “Exit”, then “No”, which takes you to Linux
7. Insert the flash drive into a spare USB port on your Saguaro
8. Linux will see that you have inserted a flash drive and ask you if you want to open it in File Manager. Click Yes
9. In File Manager, navigate to the media you inserted, locate the three files on that drive, highlight all three, right click and select “Copy”
10. In File Manager, navigate to home/dzkit/Saguaro. You should see the same three files (sw\_rx.py, sw\_rx\_globals.py and stream\_sdr\_to\_audio.py)
11. Rename the existing files by adding \_orig to the names, e.g., sw\_rx\_orig.py
12. Paste the new files in that same folder
13. Exit the File Manager
14. Click the “Eject” symbol on the top menu bar
15. When you see the “safe to remove” message, remove the flash drive
16. Bring up a command prompt
17. If not already done in a previousl release, execute the following commands to install the enhanced AGC settings:
    1. git clone <https://github.com/pothosware/SoapySDRPlay> ./SoapySDRPlay -b additional-settings
    2. cd SoapySDRPlay
    3. mkdir build
    4. cd build
    5. cmake ..
    6. make
    7. sudo make install
18. Start the Saguaro program by clicking the raspberry, then Other, then Saguaro

Note: The program will also continue to start automatically when you turn power on.