

## **HackRF Data Store User Manual**

### **Please follow the steps to collect data without any problem:**

- 1-) After you connect HackRF SDR to an Android device, make sure that three LEDs on HackRF is illuminated.
- 2-) Before you start the program, please open the internet and location services.
- 3-) Start the program and start the analyzer by pressing the start button (triangle at the top.)
- 4-) Adjust the bandwidth that you want to store data from the settings icon at top left. Note that the values are set as 3550 to 3700 for 1 minute by default.
- 5-) Press the button at top right to start storing data into local database.

### **Data Synchronization from local to remote host:**

- 1-) Make sure that your device is connected to FIU network
- 2-) Inside the app, open the menu and press Sync button. After sync is finalized, data will be removed from the device.

### **Change FFT Size:**

- 1-) Open the menu
- 2-) Press the settings button and change the FFT size e.g. 20 MHz/ FFTSize will give the frequency interval that we passed for each record.
- 3-) FFT size is set to 16 by default, which means that we keep the records for each 1.25MHz.

### **See stored data in Android Database:**

- 1-) Open the menu
- 2-) Press the SQLite button.
- 3-) Choose RFTTable from the arrow at the top right.
- 4-) To delete records, tap click here to change table and choose delete this table.

### **How Program Works**

After the record button is pressed, the program starts storing the 20Mhz data, which is currently available in an array, into the local host. Then we shift the frequency

spectrum by 20 MHz and repeat the process until the program reaches the upper bound specified by the user.