

BeaconApp

USER MANUAL

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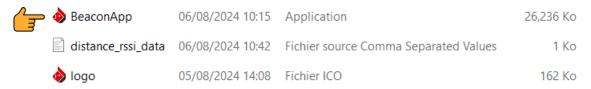
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I- Overview

This application is designed to read data from beacons via serial communication, parse the data, and display it in a UI. It tracks the Received Signal Strength Indicator (RSSI) values of beacons, updates the displayed information in real-time, and saves the data to a CSV file. Users can also edit distance and comments associated with each beacon.

User Interface Overview

Open the application « BeaconApp.exe »



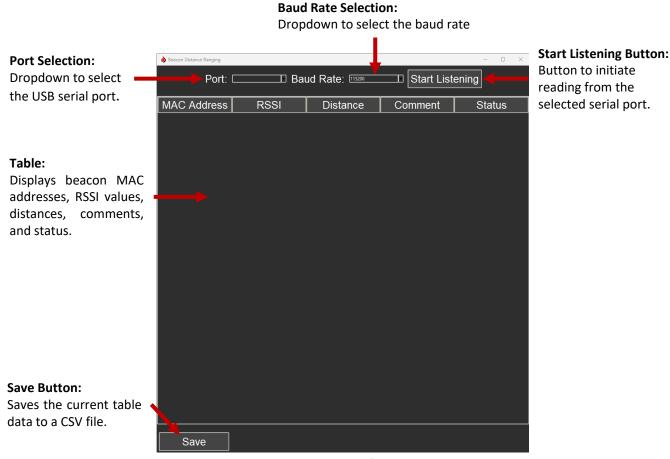
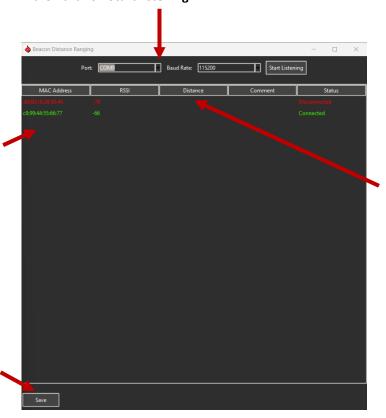


Figure 1: user interface

II- Using the Application

1) Select USB Port, and baud rate 115200, then click on **Start listening**



3) To add distance, double click in the cell and write distance in m, then hit "ENTER" to add data to the table. Same way for the "comment"

4) Click the "Save" button to save the current table data to a CSV file named "distance_rssi_data.csv"

2) In the beacons table,

detected Beacons data

you will notice the

Figure 2: user interface

N.B: Beacon not connected means it didn't send data for more than 10 seconds

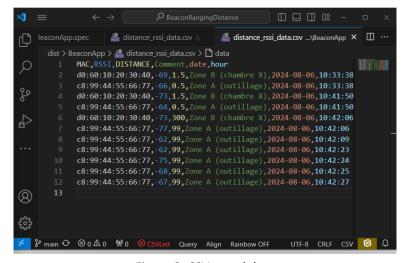


Figure 3: CSV saved data

III- Troubleshooting

- Failed to Open Serial Port: Ensure the selected port is correct and not being used by another application.
- **No Data Received:** Check the USB port connection and ensure the beacon is powered and within range.