Supporting a new device with the Bluetooth Data Explorer

All About the Device

In this example, the device I’m adding is a Govee Smart Thermo-Hygrometer – that means it measures temperature and humidity. Mine is model H5074 (but be warned: these sensors tend to come and go in the marketplace)

Step 1: Power on and run Bluetooth Data Explorer

The device has a little blue tab; pull it and it will start advertising. This is about the last time you’ll need to fiddle with the device. Run the Bluetooth Data explorer program

Graphical user interface

Description automatically generated with medium confidence

Go into settings; in “Show which device” change the setting to “Bluetooth Beacons” and click “Search”.

Graphical user interface, application, Word

Description automatically generated

The Govee sensor will show up; click “Full details” to get as much information as you can from the device. In the Govee case, it’s not much, but we do see the name and the Bluetooth address. From one specific output:

E0:17:54:D0:74:C5 10:48:24.5 -38 Govee\_H5074\_74C5

LE General Discoverable Mode+BR/EDR Not Supported

section CompleteListOf16BitServiceUuids data=0A 18 F5 FE 88 EC

The LE means that it’s a Bluetooth LE device; the General Discoverable mode means it’s ready to be paired and that the user (that’s you) hasn’t done anything special to put it into pairing mode (that would be the limited mode).

From the advertisement, we can conclude that it’s not spitting out data in the advertisement. Instead, we’ll need to connect to the device. The device isn’t directly pairable.

Graphical user interface, application, Word

Description automatically generated

Eventually the Govee will show up as a device; select it and wait for the app to query the device for all of the device’s data. There’s a surprising number of services exposed considering that it’s just spiting out a couple of data point.

Graphical user interface, table

Description automatically generated with medium confidence