**Mac Addresses**

Frient entry sensor pro (door sensor): 00:15:BC:00:1E:02:07:3E == 0xe6c4

Philips Hue Motion sensor: 00:17:88:01:0D:F8:44:57 == 0xd0b9 0xdc52 0xb547 0xacba 0xdd43

Philips Outdoor Motion sensor: 00:17:88:01:0D:F7:5E:C7 == 0x6ef9

Ledvance Smart+ Light: F0:D1:B8:00:00:1E:0E:DB == 0xcf6c

Nedis Door Sensor: A4:C1:38:75:23:56:99:B5 == 0x7290

Osarm Smart+ (light): 7C:B0:3E:AA:0A:03:6F:FC == 0x8b7c

Water Leak Sensor (thirdreality): 28:2C:02:BF:FF:EA:F7:14 == 0xe7fb

**README**

**TASK 1:**

**Step 1.a. Connecting to the Raspberry Pi and Installing ZigBee Binding:** Since we’re connected to the Raspberry Pi via a LAN cable, there’s no need to configure Wi-Fi. Using the IP address of the Raspberry Pi, you can access the OpenHAB dashboard from a phone or another laptop by navigating to <ipaddress>:8080 in a browser. Once inside the dashboard, go to the “Add-ons Store,” search for "ZigBee Binding," and download it.

**Step 1.b. Setting Up the ZigBee Coordinator:** After plugging the ZigBee coordinator to the Raspberry Pi, go to Settings > Things > + > ZigBee Binding. Instead of connecting automatically, select "Manual Connection" and specify the type of coordinator. For our setup, we use an Ember Coordinator. Configure the port and baud rate, which can be found online for the specific device, and set "Flow Control" to 0, as ZigBee coordinators manage small data packets efficiently and do not require additional flow control. Save the changes and wait for the coordinator to come online.

**Step 1.c. Connecting ZigBee Devices:** Each ZigBee device has a specific way to enter pairing mode. For example, to make a smart lamp ready to pair, turn it on and off five times in a quick way. For other devices, this may involve holding down a reset or setup button for a few seconds. Once the device is in pairing mode, go to Settings > Things > + > ZigBee Binding, start a scan, and the device should appear in the list. Rename the device, note its MAC address for future reference, and connect it to the coordinator.