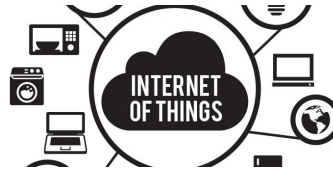


How to set up BWS Systems HA Bridge for use with Keene Kira



At the time of writing HA Bridge is an absolutely excellent FREE home automation program that can be used with the Keene 'Kira' range of products. The HA Bridge emulates the Philips Hue api to other home automation gateways such as an Amazon Echo or the Google Home. The Bridge handles basic commands such as "On", "Off" and "brightness" commands of the Hue protocol.

The HA Bridge program has obviously taken a lot of time and hard work to produce. If you use it and like please consider making a donation to BWS Systems via the link at the bottom of their home page.

<http://bwssystem.com/>

<https://github.com/bwssystem/ha-bridge>

Assumptions:

- You have the HABridge panel open in a browser in front of you.
- It is saving and loading correctly and if using Linux the necessary permissions have been set. (See the end of this document for a crib sheet on setting up a Raspberry Pi 3 with HA Bridge).

Example - use a KIRA128 to turn on a SKY box and a TV

(you have a Kira 128 or KiraCC with the IR codes to turn on the Sky box stored into location 1 and the IR code to turn on the TV stored into location 21. kira IP address is 192.168.100.123 and the udp data port is the default of 65432)

- On HA Bridge click on add/edit
- You are presented with an unpopulated device page
- Name set to 'SKY TV' (or something easy for Alexa to recognise)
- Device type UDP
- in 'ON' items:
type UDP Device
Target Item `udp://192.168.100.123:65432/cmdT001`
Content Type `text/plain`
- Click 'add to add it
- In the 'ON' items a second line appears
- in the new line:
Type UDP Device
Target Item `udp://192.168.100.123:65432/cmdT021`
Content Type `text/plain`
- Again click add
- At the top of the page click the green 'update bridge' button
- You will see a line of buttons with the name SKY TV
- The 'ON' button relates to the 2 codes you just entered. The dim and off were not configured here.
- Click the 'ON' button and the Sky box and TV should turn on, assuming of course that the KIRA128 is set up correctly.

Amazon Echo / Echo Dot

Now tell Alexa 'Alexa find my devices' it will take around 30 seconds but should come back with the devices that you have set up, i.e SKY TV

You should now be able to say 'Alexa switch on SKY TV

and as she is a good girl she will do it.

OTHER codes that you can store

You can also use full IR code strings the codes do not have to be stored so a standard KIRA can be used you do not have to have one that can store codes such as a KIRA128 or KIRACC.

this from the USB memory stick. PCManFM to nano using right click.

```
[Unit]
Description=HA Bridge
Wants=network.target
After=network.target
```

```
[Service]
Type=simple
```

```
ExecStart=/usr/bin/java -jar -Dconfig.file=/home/pi/habridge/data/habridge.config /home/pi/habridge/ha-bridge-4.1.4.jar
```

```
[Install]
WantedBy=multi-user.target
```

click ctrl X and answer Y (return) to save

Now reload services

```
pi@raspberrypi:~ $ sudo systemctl daemon-reload
```

start habridge service

```
pi@raspberrypi:~ $ sudo systemctl start habridge.service
```

set to start at boot.

```
pi@raspberrypi:~ $ sudo systemctl enable habridge.service
```

now check it is running

```
pi@raspberrypi:~ $ systemctl status habridge.service
```

or

```
pi@raspberrypi:~ $ systemctl is-active habridge.service
```

Finally you need to allow read /write permissions for all to the HABridge directory

```
pi@raspberrypi:~ $ cd /home/pi/habridge
```

```
pi@raspberrypi:~ $ sudo chmod -R 666 data
```

Assuming all is OK

Go to another machine on your network, open a browser and type <http://xxx.xxx.xxx.xxx:80> into the address bar of the browser, where xxx.xxx.xxx.xxx is the IP address of your module, (you noted it earlier).

You should see the HA Bridge start page

Before doing anything else you need to change the save location of the database

Click on bridge control.

and change the save location of the database to the habridge directory

```
/home/pi/habridge/data/device.db
```

Now everything will be nice and tidy in the one location

Try adding a test device and check that everything saves OK.

Finally Check permissions with

```
pi@raspberrypi:~ $ sudo ls -l /home/pi/habridge/data/device.db
```

```
pi@raspberrypi:~ $ sudo ls -l /home/pi/habridge/data/habridge.config
```

They should both come back as rw-rw-rw.

If not...

```
pi@raspberrypi:~ $ sudo chmod /home/pi/habridge/data/device.db
```

```
pi@raspberrypi:~ $ sudo chmod /home/pi/habridge/data/habridge.config
```