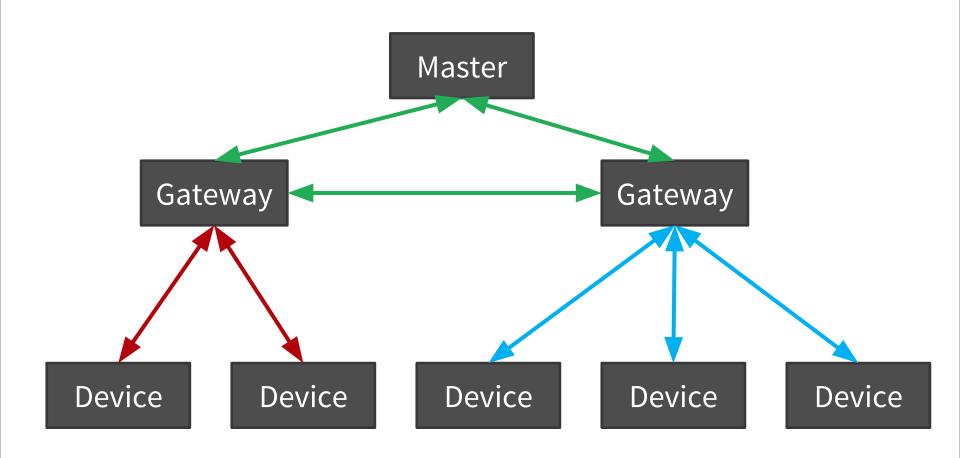


WuKong Topolog

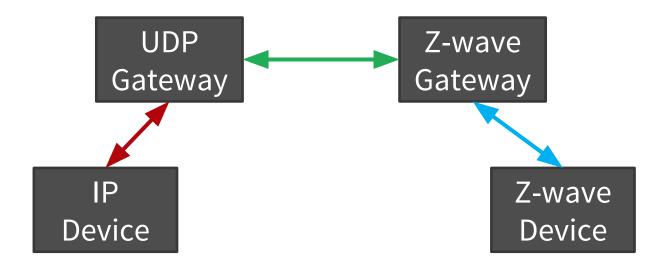






Communicate Between Different Radio

The message between the devices in different gateway will be transmitted by their gateways.

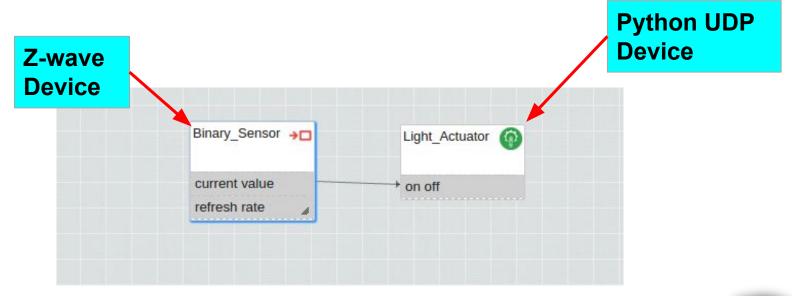




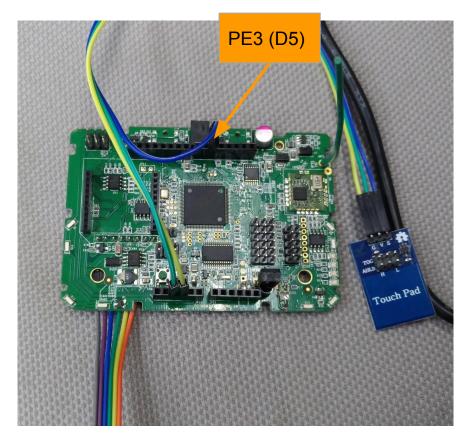


Goal of This Week

 Use two gateways with different radio let two devices with different radio can communicate with each other.



Z-wave Device

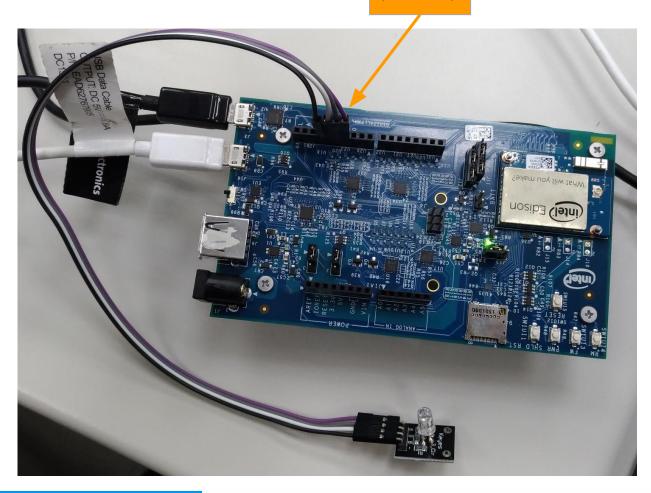






Edison

(D11~13)





Wuclasses for Z-wave Device





Upload Wukong Image

cd <wkroot>/src/config/wunode

gradle -b ../../build.gradle avrdude



Run wukong master

cd <wkroot>/wukong/master
python master_server.py



Run UDP Gateway

cd <wkroot>/wukong/gateway
python start_gateway.py



Run Z-wave Gateway

```
cd <wkroot>/wukong/gateway_zwave
vim gtwconfig.py
#MASTER_IP = '<master IP>'
#SELF_TCP_SERVER_PORT = 9002
python start_gateway.py
```





Modify the Light Actuator Code

Do the same thing on python code as we did last week. Every time the touch pad has been touch and release, make the light actuator switch to different light



Add UDP Device

- 1. Press the "add node" button.
- 2. Ssh into Edison.
- cd <wkroot>/wukong/gateway/udpwkpf
- 4. python udpdevice_light_actuator.py <gateway ip> <self ip>:<port>
- 5. Press the stop button

Add Z-wave Device

- 1. Press the "add node" button.
- 2. Press the GND interrupt button on the back side of the Z-wave device to be discovered
- 3. Press the stop button after it shows "Node is found"
- 4. It should show a message "Add: done, Node id: 2"
- 5. Rediscovery and check the detail of Z-wave device



Run the Result

https://drive.google.com/open?id=0B7bbdsnbCVsvOVF6 SnhhdlZQYjA



Hand in (Due: 12/16)

- 1. A video of your result.
- 2. Your code of light actuator wuclass.

