Home & Building Automation

Session 5

Content

- Busses/protocol presentation
- Portfolio review
- KNX
- Philips Hue
- XBMC/Kodi/OpenElec, MPD, zWave

Presentation Busses/Protocols

- 20-30 min per team
- Non presenters: write down at least two remarkable things per presented tech and one question per presenting team (+ checkin in portfolio)
- There will be always randomly picked questions after presentation
- Presenters, make material available publicly

Portfolio review

- I go around and take brief look at each portfolio and give feedback

KNX

- Do and pass intro course with at least 90%

- Checkin KNX certificate in portfolio

- Download and install ETS

- Work 2h in your team on making a bit more than "hello world" work on our KNX installation KNX project for every team

- Integrate with either Node-Red/Openhab/Home-Assistant

Philips Hue

- iot upgrade

- In "/home/iot/etc/" copy iotempower.conf.example file to iotempower.conf

- Uncomment everything apart IOTEMPOWER_AP_BRIDGE, set it to eth1

- Add usb ethernet dongle

- Connect Hue bridge

- Reboot gateway

- Use phone (and hue app) to configure

- Install node-red-contrib-huemagic

- Attach and control hue light bulb(s)

Home Gateways

- Implement current scenario with home-assistant and openhab (install on a laptop – not on iot-gateway)

- Add and integrate more stuff (4 or more things):

  - Display

  - Temperature

  - Motion Sensor/other sensors (take a look)

  - Led-strips

  - Time/Weather/Presence dependency

zWave, XBMC (Kodi), MPD

- 1-2: Connect zWave devices (at least plugs and vibration module)

- 1-2: Install XBMC (Openelec) and make it work in openhab

- 1-2: Install MPD and make it work in openhab