

A Generalized Open Source Platform for Building Energy Management

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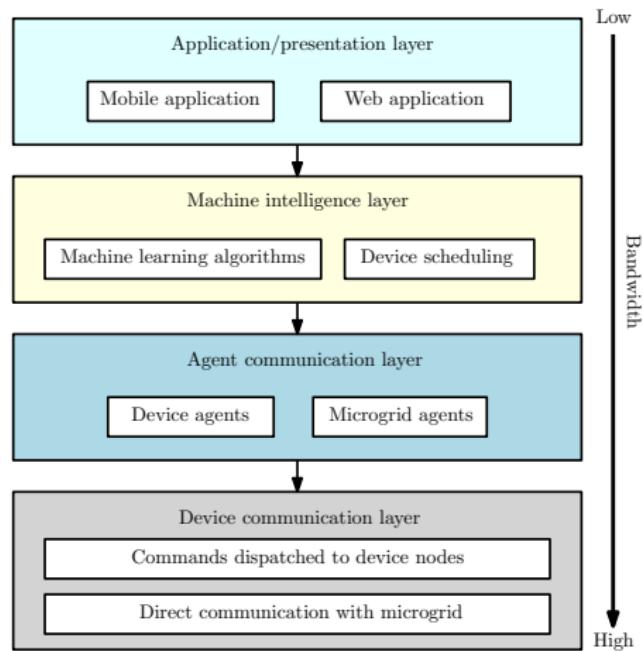
Outline

1 Introduction

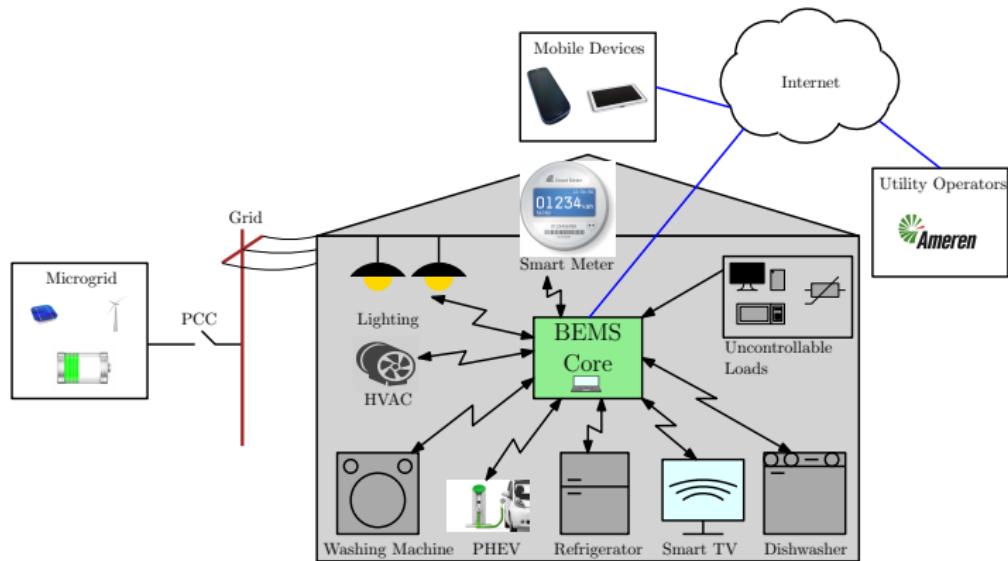
2 Progress

3 Plans

Introduction



Introduction



Progress

- Solved communication issue between the Flask webserver and the ControlAgent
- Implemented communication between the platform and the WeMo Switch (toggling On and Off)
- Queried device for power, energy consumption

Progress

- Changed publish/subscribe messaging system
- Delimited topic and method, args with " " while method and args are delimited with a forward slash
- Format: topic method/args
- Python str.split method can be used for parsing this string
- Exceptions are still being thrown by ZMQ when the button is toggled quickly
- try, except statement to handle the exception

Progress

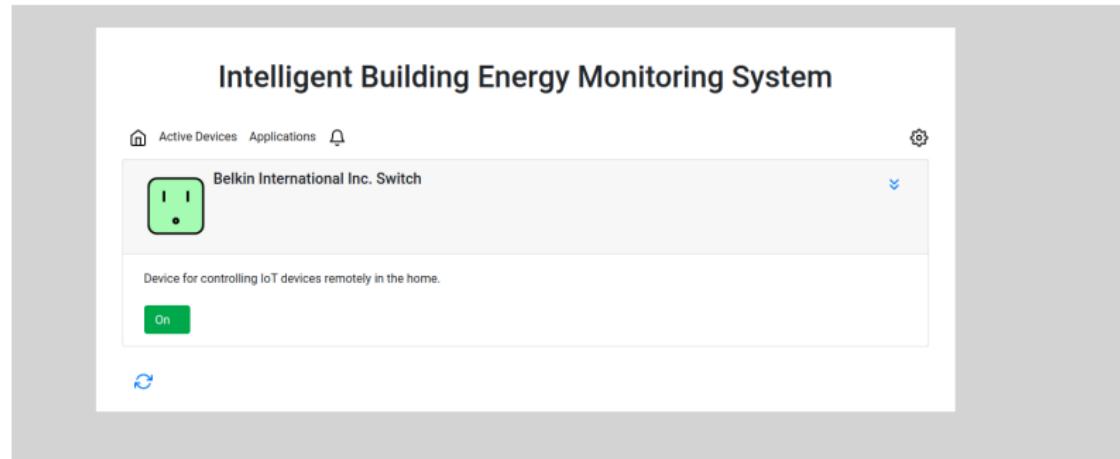


Figure: Belkin Switch listing in active devices page

Progress

- Implemented in the getState method in the WeMoAPI to query the device for InsightParams



8|1595533155|278|0|2829|1209600|29|1745|73977|1201816.000000|8000

- Connected to RPi

Progress

- State
- Seconds of last state change
- Last on seconds
- Seconds on today
- Unknown
- Total seconds
- Unknown
- Power(mW)
- Energy used today (mW*min)
- Energy used total (mW*min)
- Unknown

Plans

- Redraw the high-level architecture figure with hand-drawn figures to reduce file size
- Continue working on adding the power consumption to the UI
- Once finished with the Switch, work on adding the motor API

Any Questions?