

INTRODUCTION TO MQTT

Message Queue Telementary Transport

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MQTT IS A MACHINE-TO-MACHINE
(M2M) / "INTERNET OF THINGS"
CONNECTIVITY PROTOCOL.

*LIKE HTTP BUT DIFFERENT

Home Automation Architecture using MQTT



WHAT'S THIS ALL ABOUT?

- Public/Subscribe Messaging
- Asynchronous
- Simple terms: connect, publish
- Smallest possible packet size is 2 bytes
- ... And a lot more

COMPARISON OF MQTT & HTTP

- MQTT is agnostic of data content and transfers simple byte arrays
- MQTT has few methods (publish/subscribe/unsubscribe)

- HTTP is (basically) document-centric
- HTTP can be complex, (POST/PUT/GET/DELETE? Anything else missing??)

MQTT IS LIGHT ON NETWORK

MQTT

- Sends the value that are necessary
- Non verbose
- Easy distribution of Data
 - 1 to none
 - 1 to 1
 - 1 to n
- Supports Fire and Forget

HTTP

- Contains unnecessary values
- Verbose
- It maintains point to point
- It has no retry /confirmation /attempt at once-only delivery

APPLICATION

- Where Lightweight CPU/MCU are used
- Home automation
- Gardening
- Mind Controlled Electrical Thingsys
- Radiation Mapping
- ... more

MQTT RESOURCES

One URL says it all

<https://github.com/hobbyquaker/awesome-mqtt>