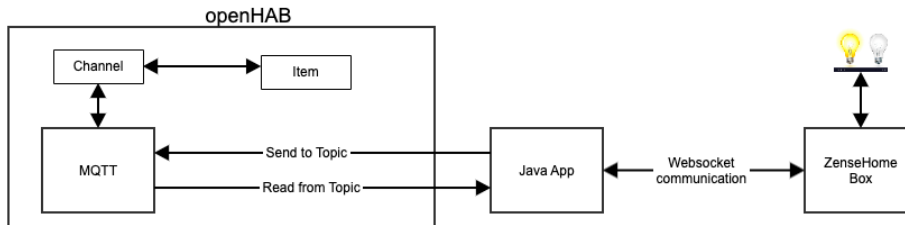


OpenHAB with Zensehome



Update 08-12-2022. Now a days ZenseHome has MQTT connection, so this page is 100% outdated. Use the MQTT Connection in ZenseHome to provide bridging to OpenHAB or similar.

Architecture



Java Application as Bridge

Github Source: <https://github.com/jobu279/zensehome>

Compile the source code or fetch the runtime. Edit config.properties to suit your network and mqtt.

Samples below are referenced from /home/bnp/production/zensehome/zensemqt

You need to create a "/home/bnp/production/zensehome/zensemqt/logs" directory; - then execute the application

```
root@robin:~/production/zensehome/zensemqt# java -Dfile.encoding=UTF-8 -classpath /home/bnp/production
/zensehome:/home/bnp/production/zensehome/zensemqt/mqtt-client-0.4.0.jar zensemqt.ZenseMQTT
Jan 09, 2019 8:14:01 PM zensemqt.Log logging
INFO: Starting ZenseHome MQTT listener
```

Setup a light source

I have defined a [Thing](#) for the ZenseHome box:

Name

ZenseHome Box

Location

LIGHTS

Bridge Selection

MQTT Broker - mqtt:systemBroker:embedded-mqtt-broker



Configuration > Things > ZenseHome Box



ZenseHome Box

Generic MQTT Thing

You need a configured Broker first. Dynamically add channels of various types to this Thing. Link different MQTT topics to each channel.

Status: **ONLINE**

Channels

And are adding each light as a channel See [Concepts](#)):

Add channel

Please select a channel type for the new channel:

Channel type

On/Off switch

Channel id

kitchen-light

Label

Lys i Køkken

Channel configuration

MQTT state topic

zense/execute/18324

An MQTT topic that this thing will subscribe to, to receive the state. This can be left empty, the channel will be stateless command-only channel.

MQTT command topic

zense/execute/18324

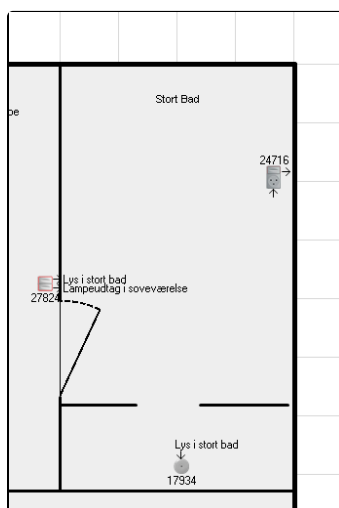
An MQTT topic that this thing will send a command to. If not set, this will be a read-only switch.

SHOW MORE

CANCEL

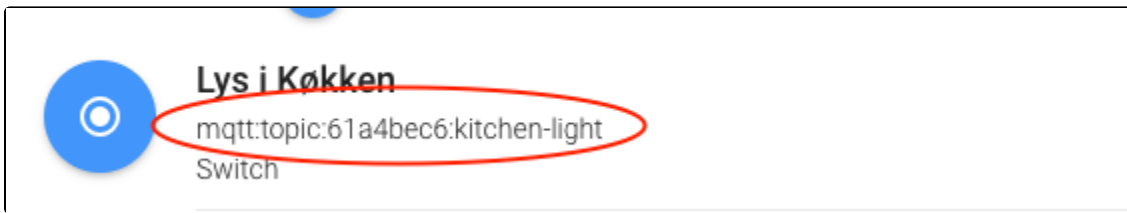
SAVE

With the [Topics](#) according to <https://github.com/jobu279/zensehome>. The Id can be found in the Zensehome Windows Application:



Adding as "Percentage value" instead of ON/OFF, gives a slider for the light

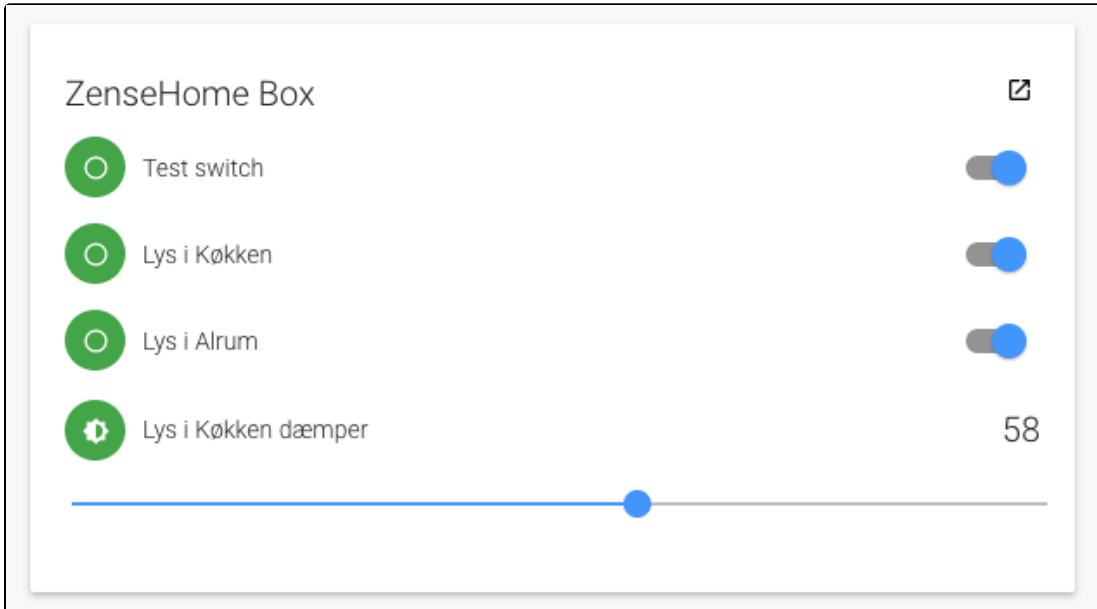
After the Save operation, the Channel has a unique id:



This is used in [Sitemaps](#) and [Item](#) files .

Visible and testing in Paper UI - Controls

You should be able to see the Channels in Paper UI and test them:



Installing as a service

Follow: <https://computingforgeeks.com/how-to-run-java-jar-application-with-systemd-on-linux/>

Logging

Watch the Log in `/home/bnp/production/zensehome/zensemqt/logs`

```
root@robin:~/production/zensehome/zensemqt/logs# cat 2019-1_ZenseLog.log
Jan 09, 2019 7:44:53 PM zensemqt.Log logging
INFO: Starting ZenseHome MQTT listener
Jan 09, 2019 7:46:35 PM zensemqt.Log logging
INFO: New message with topic: zense/execute/10604, Message: ON
Jan 09, 2019 7:46:37 PM zensemqt.Log logging
INFO: New message with topic: zense/execute/10604, Message: OFF
Jan 09, 2019 7:46:43 PM zensemqt.Log logging
INFO: New message with topic: zense/execute/10604, Message: ON
Jan 09, 2019 7:46:44 PM zensemqt.Log logging
SEVERE: Error in socket creation: java.net.SocketException
Jan 09, 2019 7:46:54 PM zensemqt.Log logging
INFO: New message with topic: zense/execute/10604, Message: OFF
Jan 09, 2019 7:46:55 PM zensemqt.Log logging
SEVERE: Error in socket creation: java.net.SocketException
Jan 09, 2019 7:47:00 PM zensemqt.Log logging
INFO: New message with topic: zense/execute/10604, Message: ON
```

Notice the "SEVERE: Error in socket creation: java.net.SocketException" - this means the ZenseHome box is non-responding



Use the [MQTT Explorer](#) for examining the topics