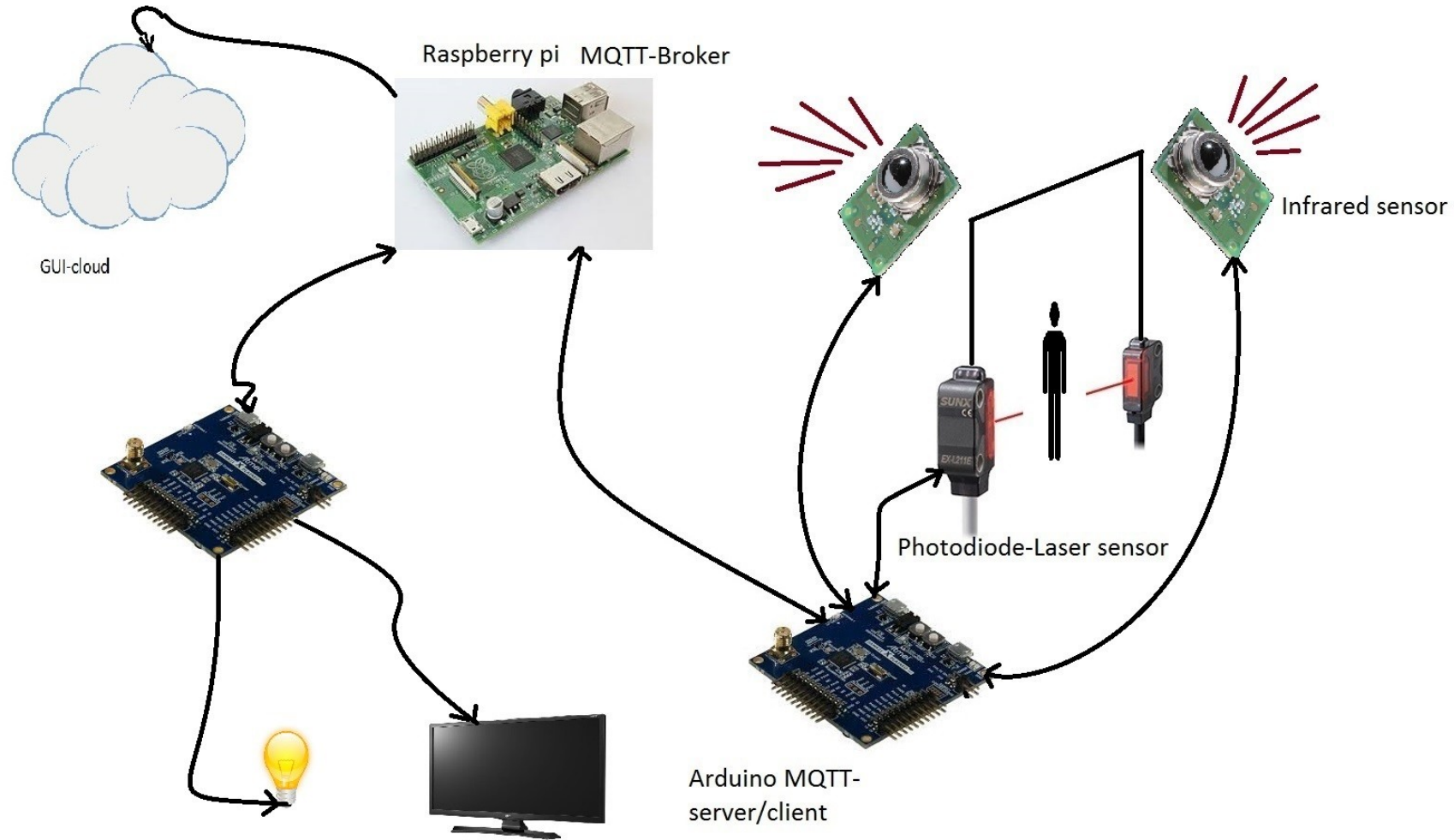


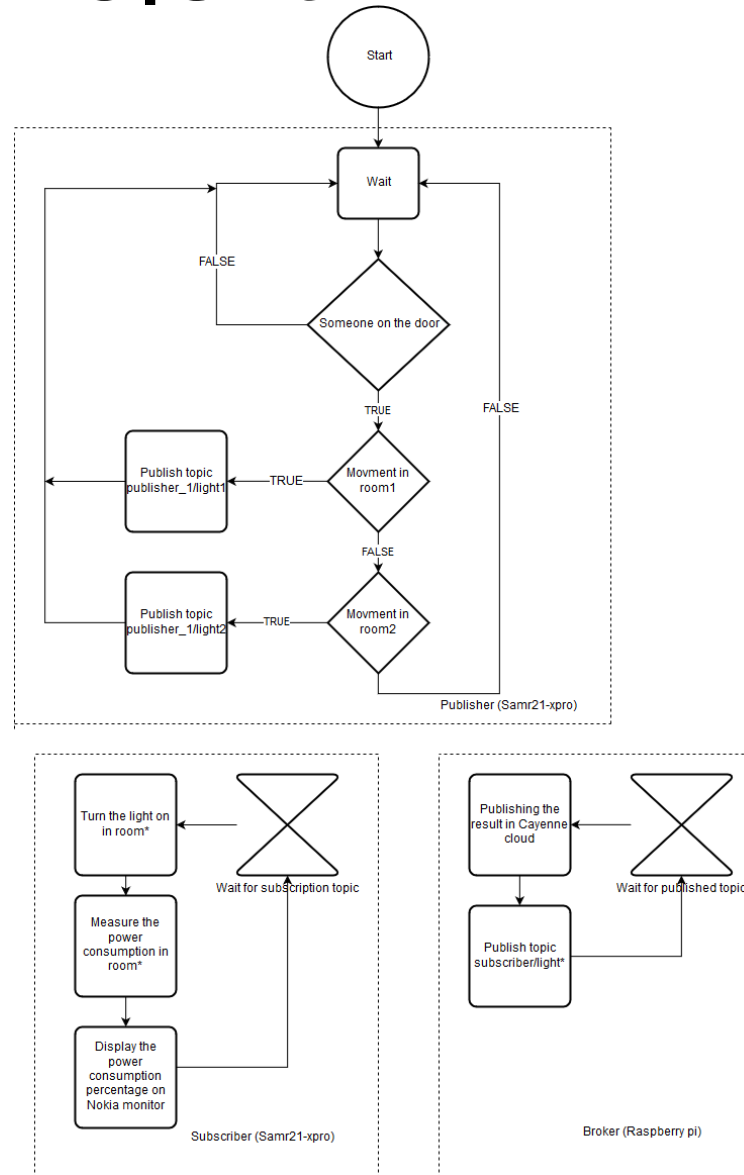
Zwischenstand Smart Human Detection

Michel Kapell, Alhajras Algdairy, Sebastian Szymczak

Was war unser Projekt?



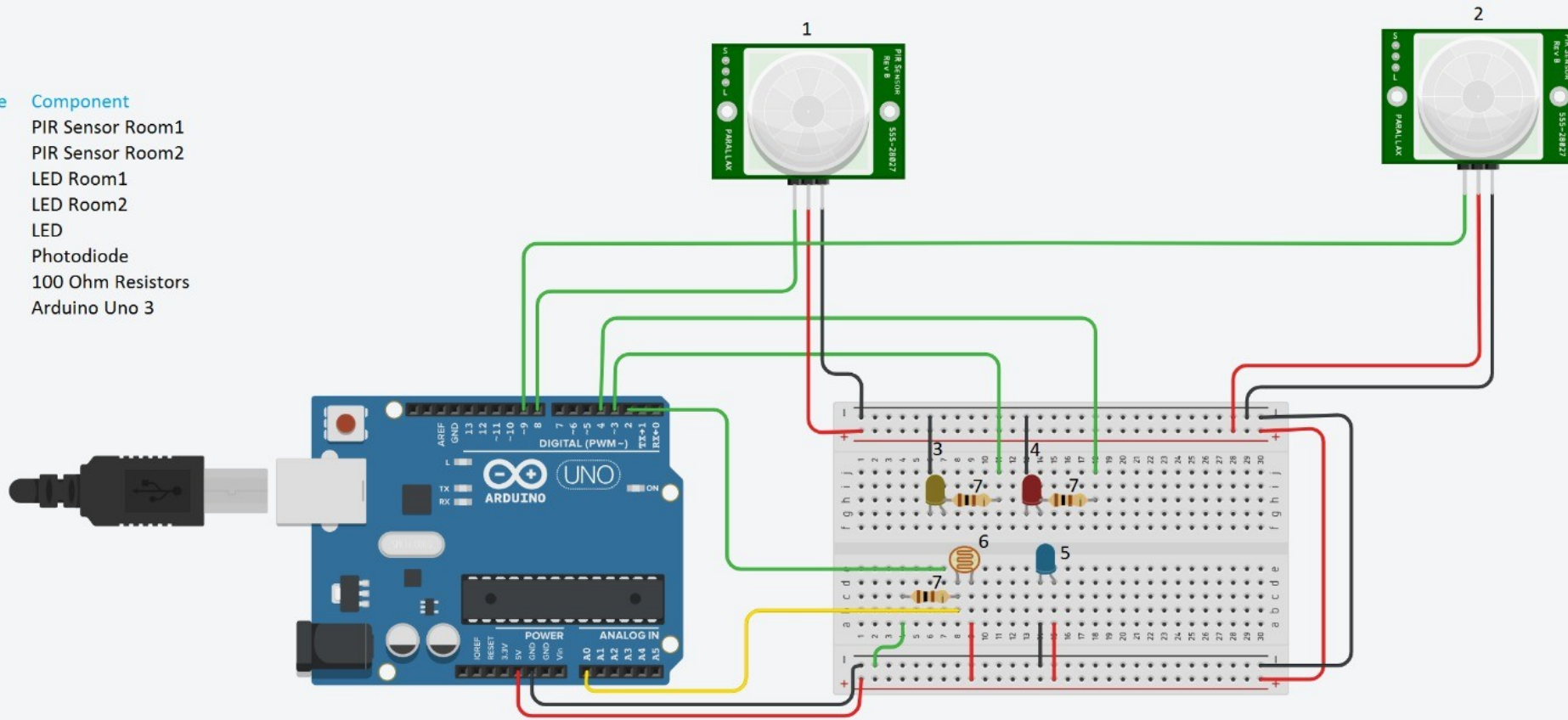
Was war unser Projekt?



Publisher

Lable Component

- 1 PIR Sensor Room1
- 2 PIR Sensor Room2
- 3 LED Room1
- 4 LED Room2
- 5 LED
- 6 Photodiode
- 7 100 Ohm Resistors
- 8 Arduino Uno 3



Publisher

```
Movement has been detected in room 1  
Published 16 bytes to topic 'subscriber/light_1 [4]'
```

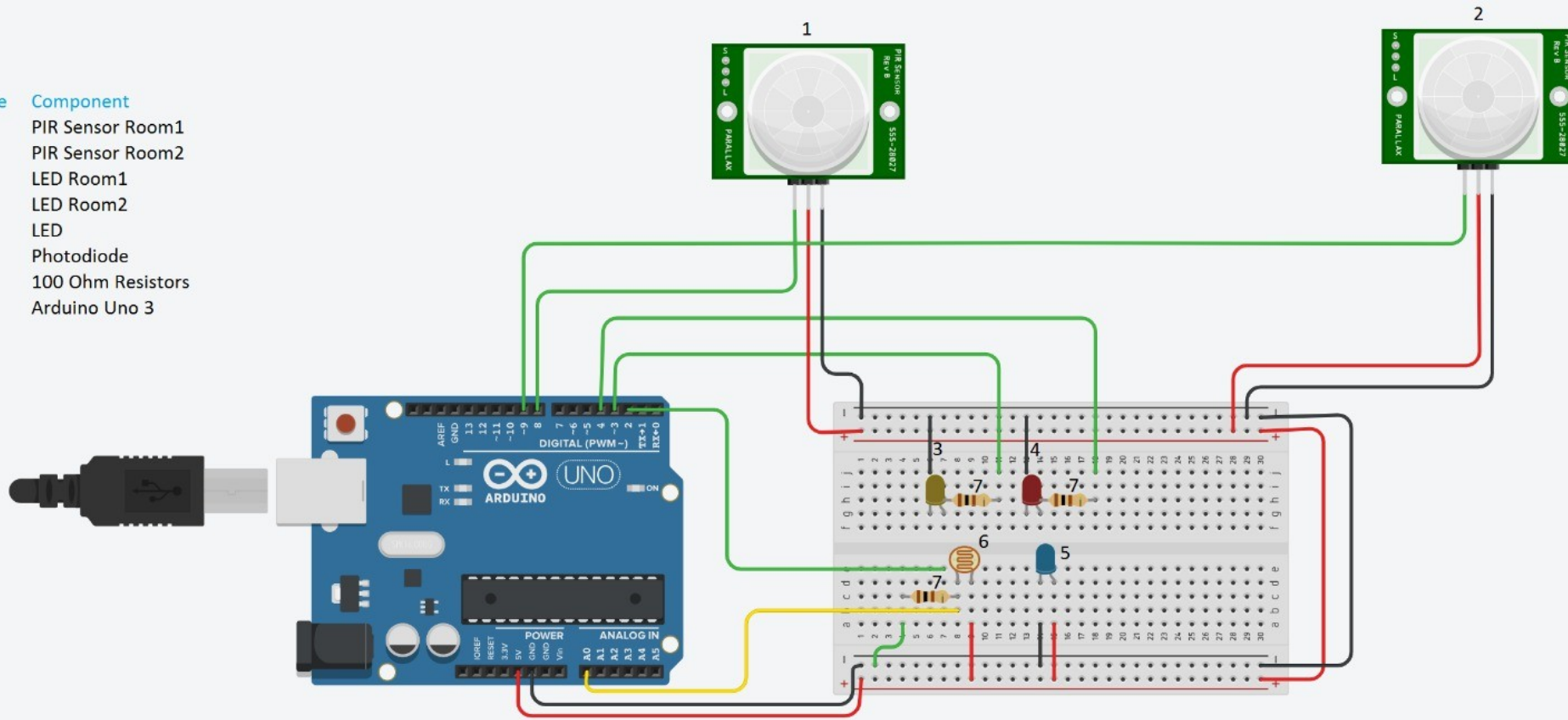
```
Movement has been detected in room 1  
Published 16 bytes to topic 'subscriber/light_1 [4]'
```

```
Movement has been detected in room 1  
Published 16 bytes to topic 'subscriber/light_1 [4]'
```

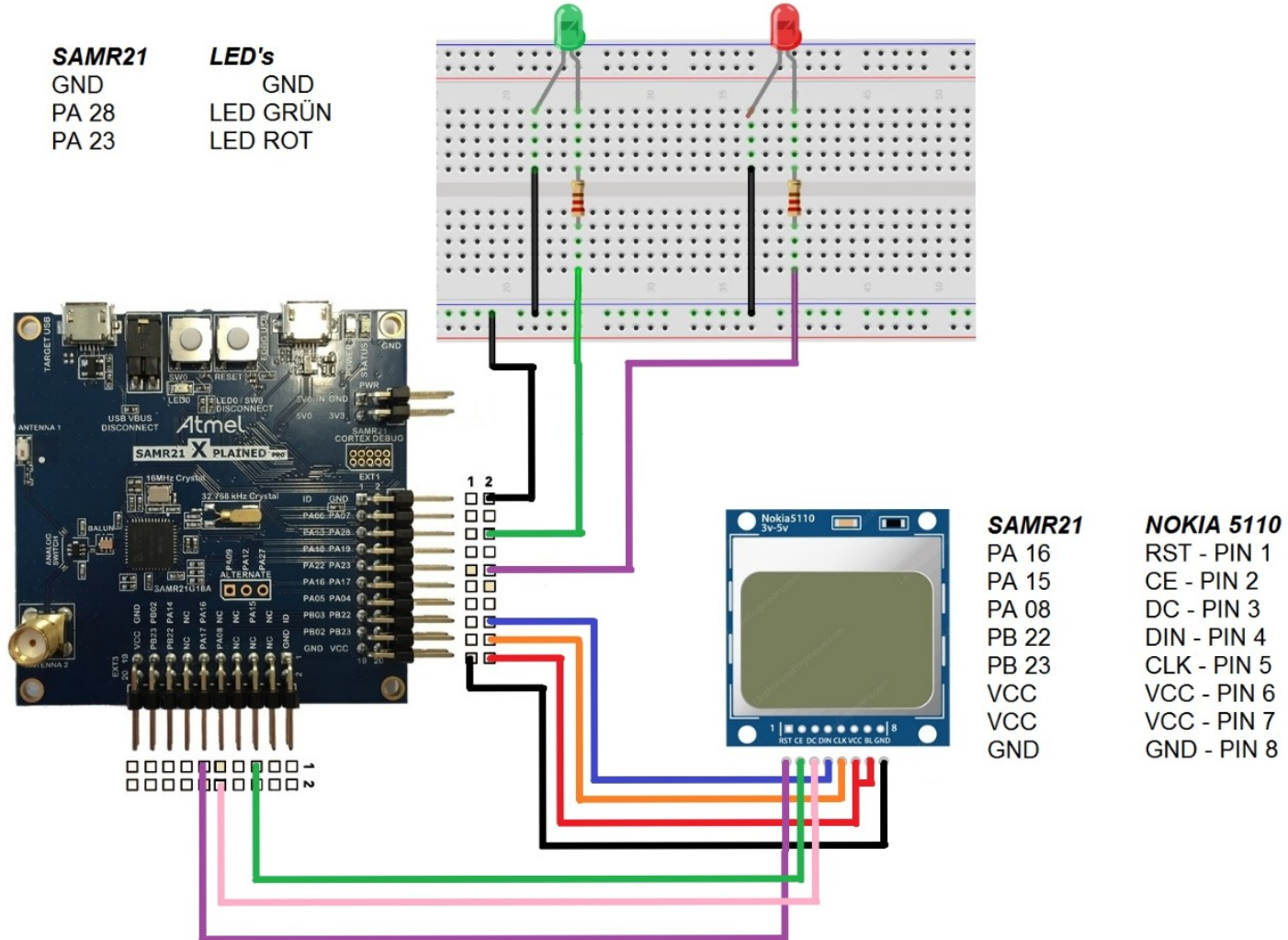
Publisher

Lable Component

- 1 PIR Sensor Room1
- 2 PIR Sensor Room2
- 3 LED Room1
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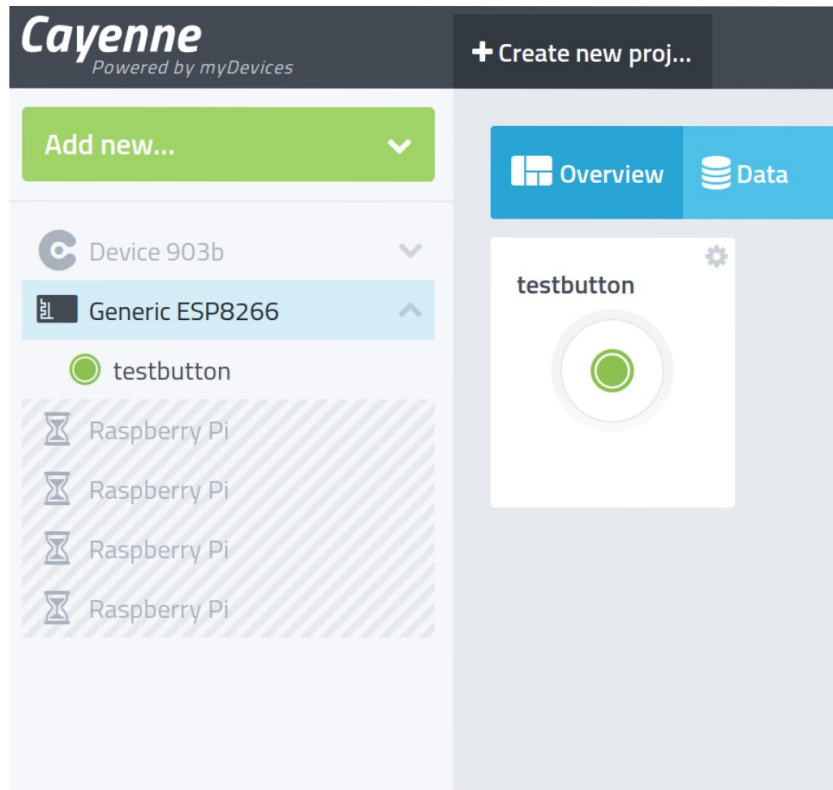
Subscriber



Subscriber

```
vagrant@vagrant: ~/Tutorials/RIOT/app/shd_subcriber
2018-11-28 15:06:19,863 - INFO # Successfully connected to Gateway
2018-11-28 15:06:19,881 - INFO # Now subscribed to Gateway light 1
2018-11-28 15:06:19,896 - INFO # Now subscribed to Gateway light 2
2018-11-28 15:09:43,385 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:43,386 - INFO # this is sensor 2
2018-11-28 15:09:44,412 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:44,413 - INFO # this is sensor 2
2018-11-28 15:09:45,440 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:45,442 - INFO # this is sensor 2
2018-11-28 15:09:46,467 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:46,468 - INFO # this is sensor 2
2018-11-28 15:09:47,496 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:47,497 - INFO # this is sensor 2
2018-11-28 15:09:48,526 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:48,527 - INFO # this is sensor 2
2018-11-28 15:09:56,596 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:56,597 - INFO # this is sensor 2
2018-11-28 15:09:57,623 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:57,623 - INFO # this is sensor 2
2018-11-28 15:09:58,647 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:09:58,649 - INFO # this is sensor 2
2018-11-28 15:10:04,706 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:10:04,707 - INFO # this is sensor 2
2018-11-28 15:10:05,734 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:10:05,734 - INFO # this is sensor 2
2018-11-28 15:10:06,758 - INFO # got publication for topic 'subscriber/light_2'
2018-11-28 15:10:06,758 - INFO # this is sensor 2
2018-11-28 15:10:08,811 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:08,811 - INFO # this is sensor 1
2018-11-28 15:10:09,837 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:09,837 - INFO # this is sensor 1
2018-11-28 15:10:10,867 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:10,867 - INFO # this is sensor 1
2018-11-28 15:10:11,892 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:11,892 - INFO # this is sensor 1
2018-11-28 15:10:12,921 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:12,921 - INFO # this is sensor 1
2018-11-28 15:10:13,946 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:13,947 - INFO # this is sensor 1
2018-11-28 15:10:14,975 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:14,976 - INFO # this is sensor 1
2018-11-28 15:10:16,003 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:16,004 - INFO # this is sensor 1
2018-11-28 15:10:17,028 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:17,028 - INFO # this is sensor 1
2018-11-28 15:10:30,132 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:30,133 - INFO # this is sensor 1
2018-11-28 15:10:31,155 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:31,155 - INFO # this is sensor 1
2018-11-28 15:10:32,181 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:32,182 - INFO # this is sensor 1
2018-11-28 15:10:33,210 - INFO # got publication for topic 'subscriber/light_1'
2018-11-28 15:10:33,211 - INFO # this is sensor 1
```


Cayenne-Cloud und MQTT-SN Gateway



Cayenne-Cloud und MQTT-SN Gateway Probleme

Problem	Lösung
Client-ID bei Cayenne > 23 byte	Parser
Unsere Topics auf die Cayenne Topics mappen	Parser
Login bei Cayenne	Parser

Was haben wir vor?

- PIR-Sensoren über einen Transistor schalten (power saving)
- LCD-Monitor beim subscriber hinzufügen
- messages vom publisher zur Cayenne-Cloud parsen
- Trigger in der Cayenne-Cloud hinzufügen

Danke für Ihre
Aufmerksamkeit