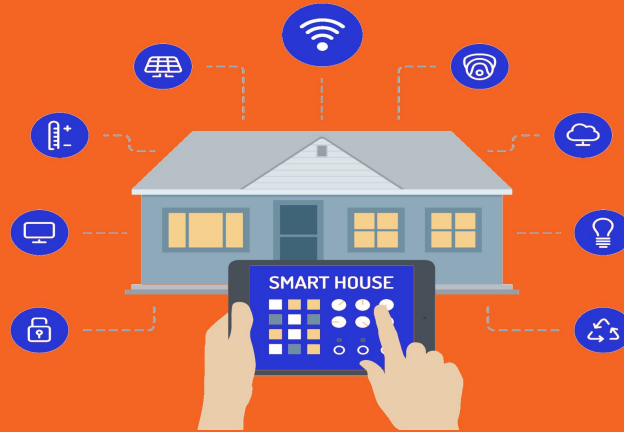


ioBroker schnellstart



Florian Keller

10.03.2023



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ioBroker

ioBroker ist mehr eine Zentrale, um verschiedene Komponenten/Module zu vereinen.

Es ist kein Smart Home Ökosystem sondern mehr eine Vernetzung auch getrennter Systeme.

Adapters	557
ForumUser	28.3k
F. AktiveUser	~2-3k
F. Posts	947k
F. Topics	62.3k
Ideen	



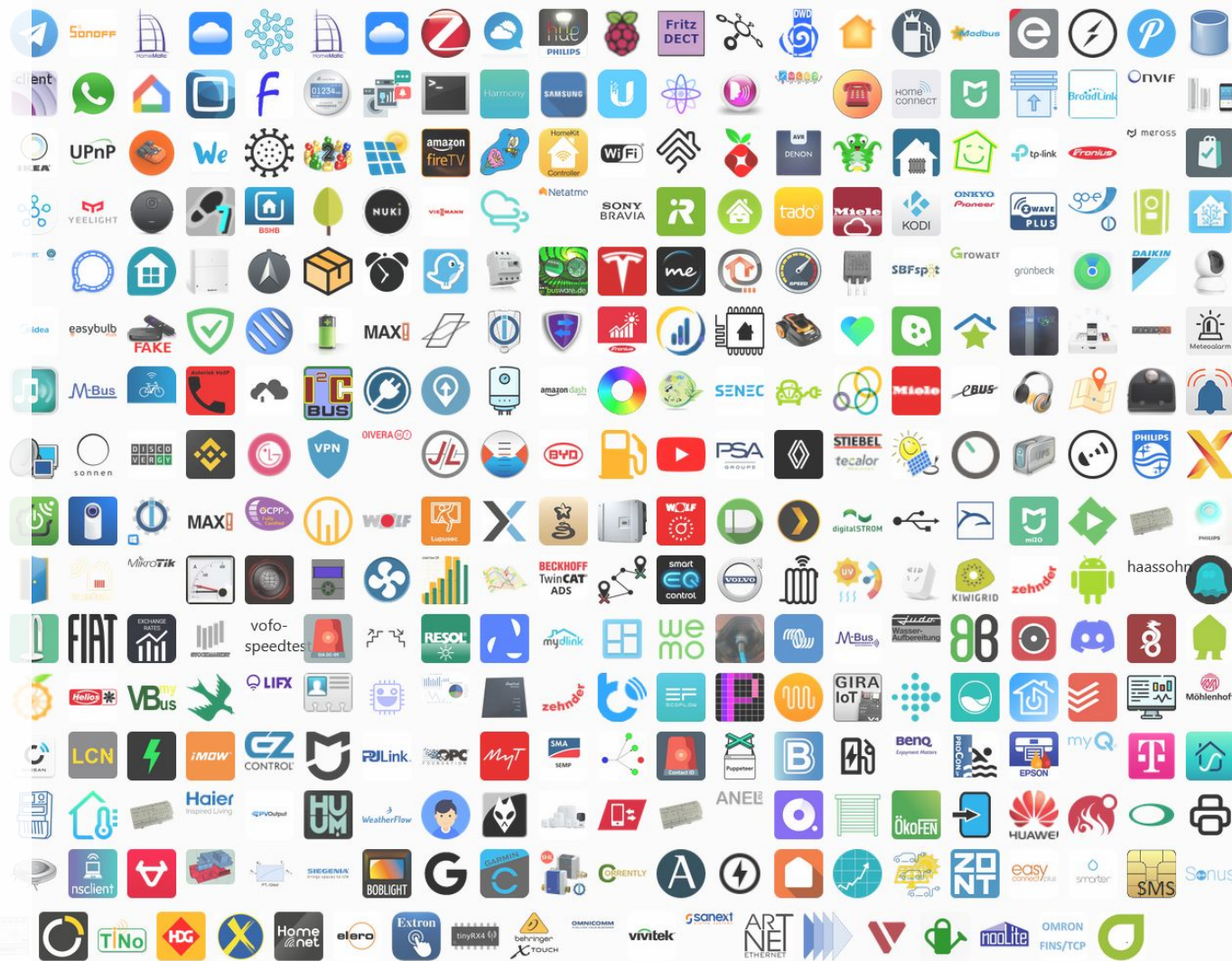
SmartHome

Laut Google "Im Smart Home können Sie technische Abläufe, die bislang manuell ausgeführt wurden, digitalisieren und automatisieren. Indem Sie die Haustechnik in einem einheitlichen System vernetzen, lassen sich Funktionen einzelner Geräte zentral bedienen und aufeinander abstimmen."

Im endeffekt alles was das leben im haus vereinfacht, so gesehen selbst Universalfernbedienungen wie eine Logitech Harmony one ist schon eine kleine SmartHome Zentrale auch über das Hifi System hinaus, IR Gesteuerte Storen, Licht das gedimmt wird, TV/Beamer wird geschaltet, AV System richtig eingestellt und das alles mit einem klick auf "Kinoabend"

ioBroker und SmartHome

ioBroker als Zentrale im SmartHome verbindet die unterschiedlichsten SmartHome Ökosysteme zu einem, je nach Gerät auch ohne Hersteller Cloud.



Voraussetzungen

OS: Linux/Windows/Mac

Hardware:

Wenn es dauerhaft und gut Funktionieren soll eher weniger einen PI verwenden, sondern allenfalls einen günstigen "Small Form Factor PC" besorgen.

Contra PI:

Läuft zwar auf einem PI aber dieser hat Nachteile durch die SD Karte die allenfalls mal kaputt geht wenn es ungünstig ist.

USB Spannung für ZigBee/ZWave Sticks auch allenfalls zu gering.

Wenig Power fuer Charts aufarbeiten.

Wenig Ram/CPU/IO schnell am Limit.

Viel Geld für wenig Gesamtleistung.

6W Ultra X86 Mini PC



Celeron N3050 N3160

Pentium N3700



6W Ultra X86 Fanless Mini PC Pentium N3700 Celeron N3160 N3050 Quad Core Industrial Computer Pocket PC GPIO Dual LAN 2xUSB3.0

★★★★★ 5,0 - 3 Reviews 10 orders

CHF 128.62 CHF-186-40 31%

CHF-4.72 Off-Score Coupon [Get coupons](#)

Color: 4G RAM 128G SSD

No RAM No Storage 8G RAM 128G SSD 8G F

2G RAM 32G SSD 4G RAM 32G SSD 4G RAM

4G RAM 128G SSD 8G RAM 512G SSD

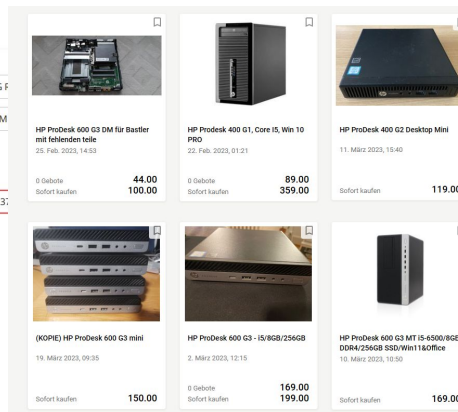
Bundle: Pentium N3700

Celeron N3050 Celeron N3160 **Pentium N3:**

Plugs Type: EU

US AU UK **EU**

Quantity:



Entwicklungsboard + Kit

180.-

Raspberry Pi 3 + Starter Kit

ARMv8

★★★★★ 1

Installation

Linux Varianten:

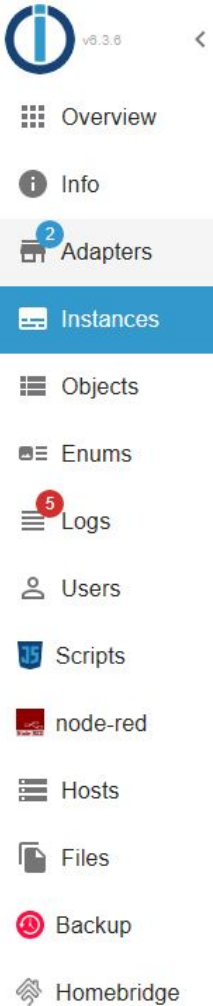
```
curl -sLf https://iobroker.net/install.sh | bash -
```

Windows:

<https://www.iobroker.net/#de/download>

Docker:

```
docker pull iobroker/iobroker
```



Interface

Das Menüband dient als Zentrale Navigation zwischen den Komponenten.

Adapters - Installierte "Module"

Instances - Instanzen der "Module"

Objects - Informationen der Instanzen bis auf das Objekt Level
Heruntergebrochen

Enums - zusammenfassungen zb "Lichter" "Gartengeräte" usw

Scripts/Backup/Homebridge - "Module" die ihre eigenen "Interfaces"
anlegen

Logs/Users/Hosts/Files - selbsterklärend

Instanzen / Konfigurationen


	accuweather.0	🔑 ↻	AccuWeather	📦 50.11 MB
	admin.0	🔑 ↻	Admin	📦 128.04 MB
	admin.1	🔑 ↻	Admin	📦 95.58 MB
	backup.0	🔑 ↻	BackitUp	📦 80.21 MB
	calendar.0	🔑 ↻	Calendar	📦 54.45 MB
	chromecast.0	🔑 ↻	Google Home	📦 56.62 MB
	daswetter.0	🔑 ↻	DasWetter.com	
	discovery.0	🔑 ↻	Discovery devices	📦 34.54 MB
	echarts.0	🔑 ↻	E-Charts	📦 41.29 MB
	email.0	🔑 ↻	Send emails	📦 31.37 MB
	esphome.0	🔑 ↻	Control ESPHome manag...	📦 58.53 MB
	ham.0	🔑 ↻	Homebridge accessories ...	📦 55.23 MB
	heos.0	🔑 ↻	HEOS	📦 76.83 MB
	influxdb.0	🔑 ↻	Logging data with InfluxDB	📦 63.54 MB
	info.0	🔑 ↻	Information page	📦 73.03 MB
	javascript.0	🔑 ↻	Script Engine	📦 110.34 MB
	miiio.0	🔑 ↻	Xiaomi mIO protocol device	📦 43.45 MB
	mqtt.0	🔑 ↻	MQTT Broker/Client	📦 66.71 MB
	mqtt-client.0	🔑 ↻	MQTT client	📦 78.31 MB
	mystrom.0	🔑 ↻	myStrom	📦 92.33 MB
	net-tools.0	▶ 🔑 ↻	Net tools	

```
Instance settings: ham.0 v0.11.11 🔑 ↻ info 🖋️

MAIN SETTINGS
CONFIGURATION FILE

1- {
2-   "description": "Add configuration for your accessories or platforms according to the docs of the plugins.",
3-   "accessories": [
4-     {
5-       "accessory": "XiaomiAirPurifier3",
6-       "name": "Xiaomi Air Purifier",
7-       "cidr": "192.25.112.81",
8-       "ip": "192.25.112.81",
9-       "token": "*****",
10-      "pm25_breakpoints": [
11-        5,
12-        12,
13-        35,
14-        55
15-      ]
16-    }
17-  ],
18-   "platforms": [
19-     {
20-       "platform": "xiaomifan",
21-       "devices": [
22-         {
23-           "name": "Fan1",
24-           "ip": "192.25.112.82",
25-           "token": "*****",
26-           "pollingInterval": 300,
27-           "moveControl": true,
28-           "powerControl": true,
29-           "speedControl": true,
30-           "temperatureControl": true,
31-           "speedometer": true,
32-           "deviceId": "*****",
33-           "speedBreakpoints": [
34-             5,
35-             60,
36-             100
37-           ]
38-         }
39-       ]
40-     }
41-   ],
42-   "name": "Fan2",
43-   "ip": "192.25.112.81",
44- }
```


Instance settings: mystrom.0 v0.0.14 🔑 ↻ info 🖋️



myStrom App Email
*****@gmail.com

myStrom App Password

Instance settings: heos.0 v0.0.14 🔑 ↻ info 🖋️

 HEOS Account

Play settings

Replace and play

Volume step: 2

Comfort settings

Automatic playback on startup and unmute

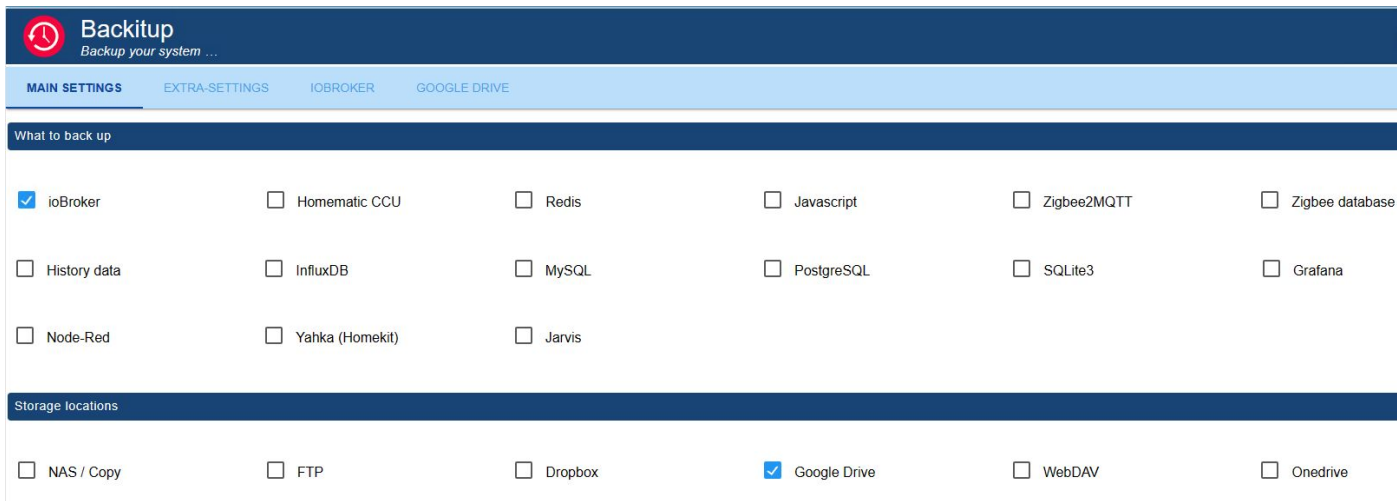
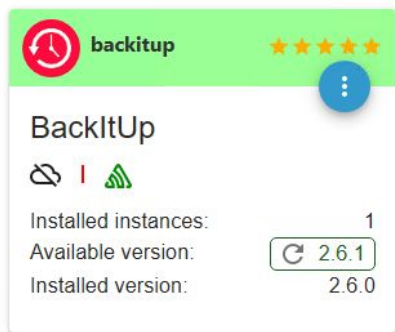
Mute, if regex matches on song information

Reboot, if device failure is detected

Safety first - BACKUP

Es gibt nichts ärgerlicheres als ein Projekt an dem man vielleicht Stunden zubringt nur damit irgendetwas schiefeht und die ganze Arbeit für umsonst ist daher als erstes egal was egal wo ein Backup einrichten

Der Backupitup Adapter kann euch da ein echter Retter in der Not sein und sichert euch so ziemlich alles aus dem ioBroker so ziemlich an jeden Backup Storage den ihr nutzen wollt.



**Kein Backup?
Kein Mitleid.**

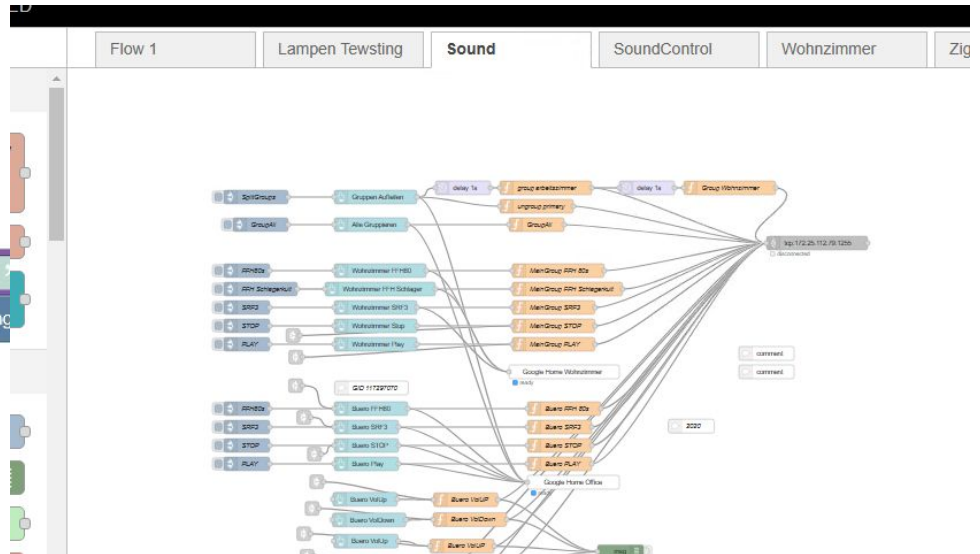
Scripting

Verschiedene arten von Scripten und Logik ist möglich

Am beliebtesten Blockly oder direkt JavaScript, allerdings lässt sich auch via Node-Red direkt Nutzen

```
1  
2  
3 function printdata(data) {  
4   console.log(JSON.stringify(data.state.val));  
5   console.log(data.state.val);  
6   console.log(getAttr(data.state.val,"action"));  
7   if (getAttr(data.state.val,"action") == "triple" ) {  
8     setState('mystrom.0.3C71BF6C059C.localCommands.switch'/*relay:state*/,true);  
9   } else if (getAttr(data.state.val,"action") == "quadruple" ) {  
10    setState('mystrom.0.3C71BF6C059C.localCommands.switch'/*relay:state*/,false);  
11  }  
12 }  
13
```

falls Objekt
Is open
ist wahr
anerkannt ist legal
falls
Aktuelle Zeit ist zwischen "08:00" und "24:00"
mache
steuere speak mit "Ich glaube die Post ist gekommen" mit Verzögerung
telegram Alle Instanzen
Meldung
Empfänger (optional)
Loglevel keins
ohne Benachrichtigung
Parsemode default



Anbindung Geräte

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)



ZWave

Wifi

Thread - (Vortrag von Dhyan Möbus August)

BLE

ZigBee

ZigBeeDirect

433mhz

IR

1wire

















KNX

...

daswetter

daswetter				
0				
NextDays				
Location_1	Winterthur [Kanton Zürich;Schweiz]	device	weather	
Day_1	Day 1	channel	weather	
Maximale_Temperatur_value	Maximal day temperature	state	value.temperature.m...	8 °C
Minimale_Temperatur_value	Minimal day temperature	state	value.temperature.m...	-3 °C
Tag_value	Day name	state	dayofweek.forecast.0	Sonntag
Wetter_Symbol_id	Weather icon name	state	weather.icon.name.f...	3
Wetter_Symbol_id2	Weather icon name	state	weather.icon.name.f...	3
Wetter_Symbol_value	Weather state URL	state	weather.title.forecast.0	Bewölkt
Wetter_Symbol_value2	Weather state URL	state	weather.title.forecast.0	Bewölkt
Wetterbedingungen_value	Weather description	state	weather.state.forecas...	Während der erst...
Wind_id	Wind id	state	weather.direction.wi...	33
Wind_idB	Wind id	state	weather.direction.wi...	34
Wind_value	Wind description	state	weather.direction.wi...	Wechselnder Wind
Wind_valueB	Wind description	state	weather.direction.wi...	Mäßiger Wind au...
iconURL	Weather icon URL	state	weather.icon.forecas...	/adapter/daswett...
windIconURL	Wind icon URL	state	weather.icon.wind.fo...	/adapter/daswett...
Day 2	Day 2	channel	weather	

mystrom

mystrom						
0						
3C71BF6C059C	Computer		device	indicator		
cloudSettings	Status via App		device	indicator		
cloudStatus	Wifi Settings via App		device	indicator		
cloudWifi	Local commands to control the device		state	indicator	(null)	
localCommands	relay?state=		state	indicator	false	
switch	toggle		state	indicator	(null)	
toggle	Local device data		state	indicator	(null)	
localData	Local data from api/v1/settings		state	indicator	(null)	
api/v1/settings	Local data from report		state	indicator	(null)	
report	Ws		state	indicator	115,35	
Ws	power		state	indicator	137,36	
power	relay		state	indicator	true	
relay	temperature		state	indicator	24,8	
temperature	Local data from temp		state	indicator	(null)	
temp	IP Address for local data		state	indicator	172.25.112.111	
ipAddress	Update interval for local data in seconds 0=disable		state	indicator	60 s	
localUpdateInterval						

Mqtt (Geraete mit XXXX2mqtt)

The screenshot displays a MQTT broker interface with a tree view on the left and a detailed view on the right. The tree view shows a hierarchy of topics, with the 'bridge' folder selected. The detailed view shows the following information for each topic:

Topic	Created from	Metadata	JSON Payload
particles	created from topic	state, channel	{"sensor": "particle..."}
AqaraLamp01	created from topic	state	{"brightness": 200, ...}
set	created from topic	state	{"brightness": 200, ...}
config	created from topic	state	{"commit": "03ba6..."}
devices	created from topic	state	[{"definition": null, ...}
event	created from topic	state	{"data": {"friendly_..."}
extensions	created from topic	state	[]
groups	created from topic	state	[{"friendly_name": ...}
info	created from topic	state	{"commit": "03ba6..."}
log	created from topic	state	{"message": "anno..."}
logging	created from topic	state	{"level": "info", "me..."}
state	created from topic	state	online
0x000d6f00fc74fd9	created from topic	state	{"battery": 67, "last..."}
0x00158d00034467fb	created from topic	state	{"last_seen": "2023..."}
0x00158d0004ac30d2	created from topic	state	{"battery": 0, "humi..."}
0x14b457ffe6fde2f	created from topic	state	{"brightness": 13, ...}
0x84182600005a474	created from topic	state	{"brightness": 254, ...}
0x84182600005a6b4	created from topic	state	{"brightness": 254, ...}
AirSensorBuero	created from topic	state	{"co2": 363, "formal..."}
AqaraButtonSoundAngelina	created from topic	state	...

HEOS (denon)

The screenshot displays the HEOS Denon API interface. On the left is a file tree under the 'heos' root, containing folders for '0', 'info', and 'players', with sub-folders for various HEOS devices. The central panel shows the 'Information' section, listing HEOS players and playback settings like 'Automatic Playback' and 'Clear queue'. The right panel lists API endpoints with their methods and parameters.

Method	Endpoint	Parameters	Response
GET	channel		
GET	device	media	
GET	channel	media.music	
GET	channel	media.music	
GET	channel	media.music	
GET	channel	media.music	
GET	channel	media.music	
GET	state	switch	true
GET	state	button	
GET	state	text	
GET	state	indicator.reachable	true
GET	state	media.album	Url Stream
GET	state	text	1
GET	state	text	Play,Stop,Next,Pre...
GET	state	media.artist	Url Stream
GET	state	media.content	
GET	state	value	0 bit
GET	state	media.bitrate	0 kbps
GET	state	media.duration	0 seconds
GET	state	media.duration.text	00:00 interval
GET	state	media.elapsed	3854 seconds
GET	state	media.elapsed.text	01:04:14 interval
GET	state	level.color.rgb	
GET	state	level.color.rgb	

withthings

withings			
0			
32034898	Florian K.	device	
activity	Activity	device	
heartList	List of ECG recordings	channel	
measures	Measurements	channel	
measuregrps01		channel	
1	Weight (kg)	channel	
5	Fat Free Mass (kg)	channel	
6	Fat Ratio (%)	channel	
76	Muscle Mass (kg)	channel	
77	Hydration (kg)	channel	
8	Fat Mass Weight (kg)	channel	
88	Bone Mass (kg)	channel	
attrib	attrib	state	value
category	category	state	value
comment	comment	state	state
created	created	state	date
date	date	state	date
deviceid	deviceid	state	text
grpId	grpId	state	value
hash_deviceid	hash_deviceid	state	text
modified	modified	state	value
measuregrps02		channel	

unifi

unifi				
0				
default			device	
clients			channel	
20:47:da:17:fa:c1	meinhandy	device		
ap_mac	Access Point MAC address	state	state	f4:92:bf:10:1a:22
hostname	Hostname	state	state	(null)
ip	IP address	state	state	172.25.112.107
is_online	Is online	state	state	false
last_seen_by_uap	Last seen by UAP	state	state	2023-03-03 07:44:...
rx_bytes	RX	state	state	12470 Byte
signal	Signal	state	state	-88 dBm
tx_bytes	TX	state	state	25979 Byte
20:df:b9:24:5d:64	Google-Home-Mini	device		