

Why Industrial Ontologies need Web of Things (WoT)



Ege Korkan

Siemens AG
Smart Infrastructure CTO Office

Hey there!



Ege Korkan

IoT Software Architect

Smart Infrastructure
CTO Office

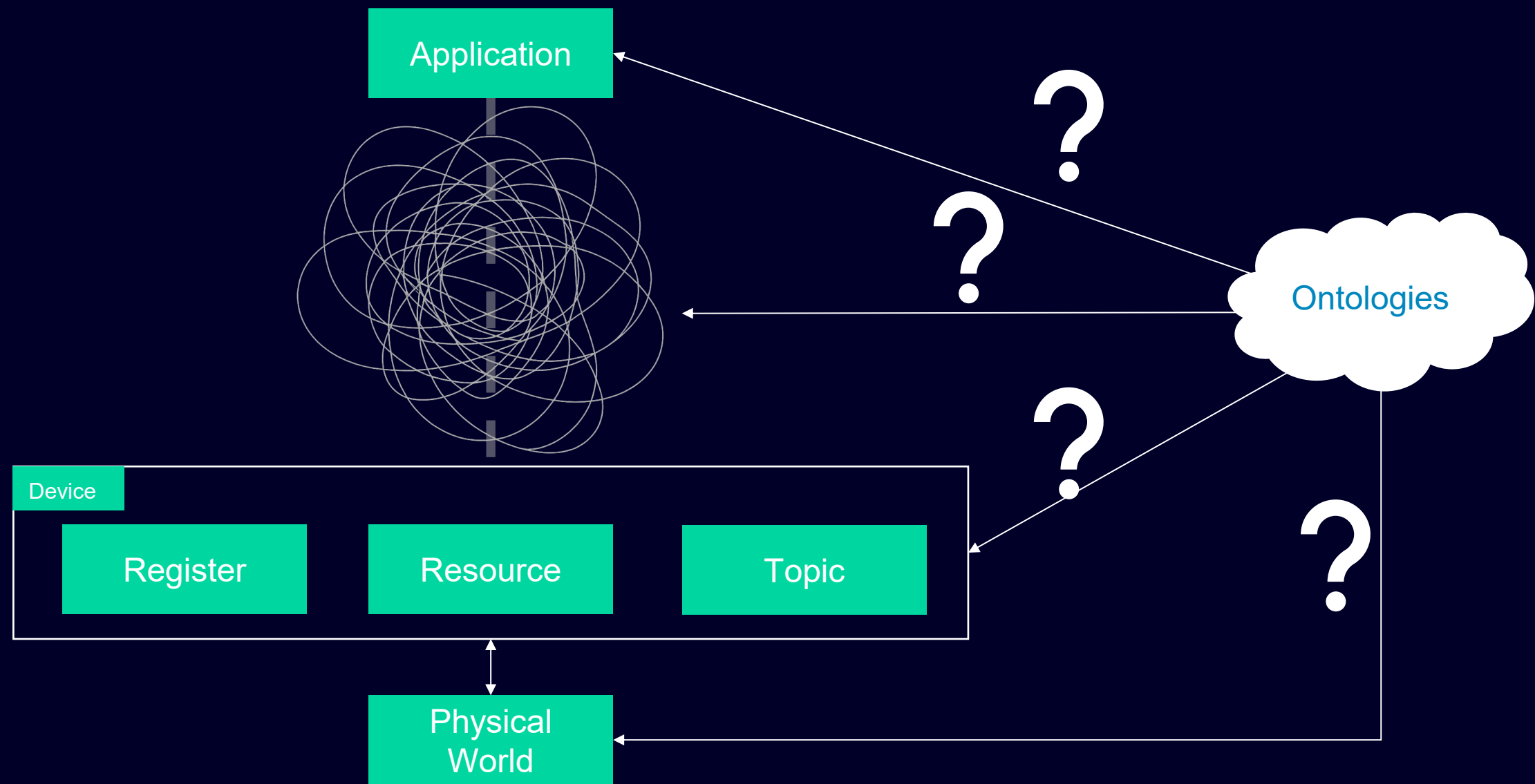
Can be spotted in the wild:

- Web of Things at W3C
 - Working Group, Task Force Lead
 - Community Group, Co-Chair
- Eclipse Foundation: Thingweb project and IoT Working Group
- JSON Schema Community
- LinkedIn, Mastodon, Discord, Telegram

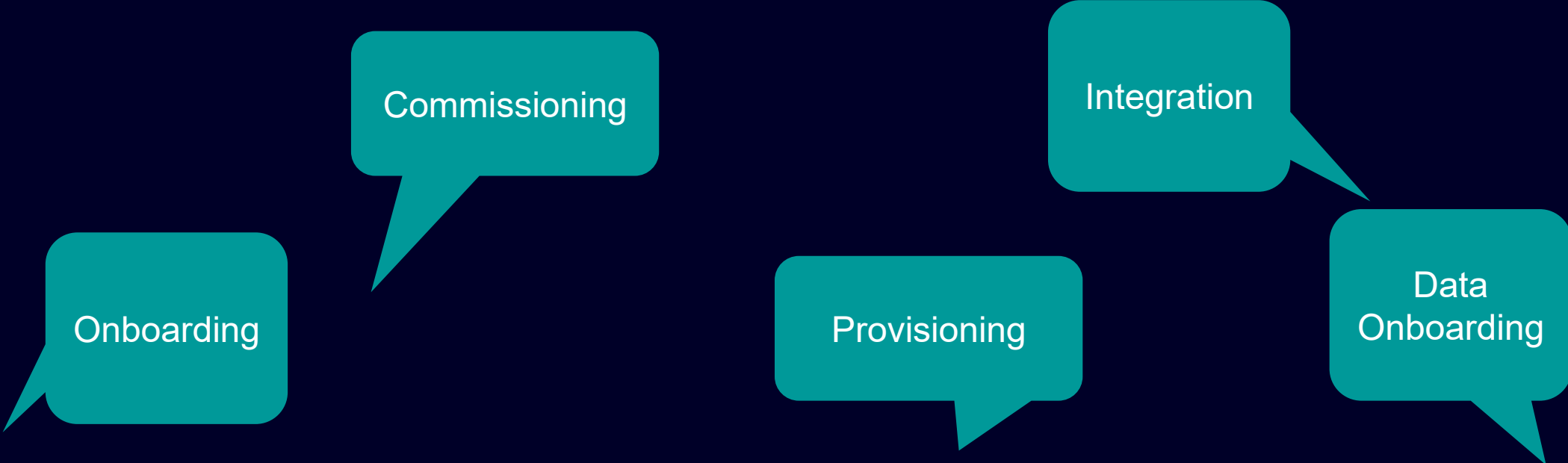
Some other events in the future:

- The Things Conference, Amsterdam, September
- W3C TPAC 2026, Dublin, November

Bytes and Registers to Ontologies



Can anyone untangle it all?



Onboarding

Commissioning

Integration

Provisioning

Data
Onboarding

Adding a new Device

State of the Art, Focusing on the Modbus TCP Protocol

Weishaupt WBB, WWP LS und WGB Modbus Configuration

■ Tutorials & Examples ■ Solutions



Blizzard Andreas

1 Oct 2024

Hi all,

I wanted to shared by Modbus Configuration for reading (and writing) Weishaupt Heatpumps WBB, WWP LS und WGB (according to the documentation I have). Maybe some other people have a Weishaupt Heatpump, too, and can make use of it. You need to enable Modbus in the Expert Section of the Heatpump. This configuration has been running with my heatpump for quite some time.

[openHAB forum](#)



Weishaupt Luft

Wasser...

€15,813.14

```
"Weishaupt Wärmepumpe" [ start="41101", length="12", refresh="30000", type="hold:
- Konfiguration" [ readStart="41101", readValueType="int16" ] // 
- Anforderung Typ" [ readStart="41102", readValueType="int16" ] // 
- Betriebsart" [ readStart="41103", readValueType="int16", write
- Pause / Party" [ readStart="41104", readValueType="int16", write
- Raumsolltemperatur Komfort" [ readStart="41105", readValueType="int16" ] // 
- Raumsolltemperatur Normal" [ readStart="41106", readValueType="int16" ] // 
- Raumsolltemperatur Absenk" [ readStart="41107", readValueType="int16" ] // 
- Heizkennlinie" [ readStart="41108", readValueType="int16" ] // 
- Sommer Winter Umschaltung" [ readStart="41109", readValueType="int16" ] // 
- Heizen Konstanttemperatur" [ readStart="41110", readValueType="int16" ] // 
- Heizen Konstanttemp Absenk" [ readStart="41111", readValueType="int16" ] // 
- Kühlen Konstanttemperatur" [ readStart="41112", readValueType="int16" ] // ]
```

Weishaupt Heatpump integration via modbus

Share your Projects!



tobiasm TobiM

2 Jul 2022

Dear Weishaupt Users,

today i would like to share with you how i have integrated my Weishaupt Biblock Heat pump via modbus in Homeassistant.

I was in touch with some Weishaupt employees and happy that they have shared a List of Datapoints for modbus connectivity. Other ways of integrating were not 100% stable & i have now tested modbus through the last months & it works really great! It is even possible to set e.g. Operating mode or Target warmwater temperature.

Here are the steps to follow:

1. Configure Modbus with static IP on your Weishaupt Device (not possible in WEMPortal - you need to configure it on the device)
2. Configure modbus connectivity - here is my sample yaml:

► Modbus YAML config

```
- name: wpump
  type: tcp
  host: 192.168.X.X
  port: 502
  climates:
    - name: "WP_Warmwasser"
      address: 42103
      input_type: holding
      count: 1
      data_type: int16
      max_temp: 50
      min_temp: 15
      offset: 0
      precision: 1
      scale: 0.1
      target_temp_register: 42103
      temp_step: 1
      temperature_unit: C
  sensors:
    #Warmwasser
    - name: WP_Warmwassersolltemperatur
      slave: 1
      address: 32101
      input_type: input
      unit_of_measurement: °C
      state_class: measurement
      count: 1
      scale: 0.1
```

[HomeAssistant Forum](#)

At least Siemens does
better 😊

Or does not...

V

vaox Valter

1 Nov 2022

Hi, I would like to read from Sentron PAC3200 . I have tried this configuration:
modbus:

- name: pac3200
type: tcp
host: 192.168.5.3
port: 502
binary_sensors:
 - name: "Voltage L1"
slave: 0
address: 1
input_type: holding
unit_of_measurement: V (this command generate error)
state_class: measurement (this command generate error)
count: 1 (this command generate error)
offset: 0 (this command generate error)
scale: 0.1 (this command generate error)
data_type: uint16 (this command generate error)

Example of error

Invalid config for [modbus]: [scale] is an invalid option for [modbus]. Check: modbus->modbus->0->binary_sensors->0->scale. (See /config/configuration.yaml, line 17).

This is part of manual that shows how to read data from device.

3.9.3

Modbus measured variables with the function codes 0x03 and 0x04

Measured variables of the SENTRON PAC Power Monitoring Device

The measured variables are provided by the SENTRON PAC Power Monitoring Device. You can use the MODBUS function codes 0x03 and 0x04 on all the measured variables listed below.



nikito7

Change binary_sensors: to sensors:

and

data_type: float32
count: 2

But what were they
trying to do, before they
had to write an essay
on a forum?

Find the right PDF, the right table, copy...

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1.1

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Ethernet.....

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Structure - Digital in

0x04

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3.9.10

Modbus device information with the function codes 0x03, 0x04 and 0x10

3.9.11

Modbus command parameters

3.9.12

MODBUS standard device identification with the function code 0x2B

3.10

Slot for expansion modules.....

3.11

Slots on the rear of the device

Table 3-6

Available measured variables

Offset	Number of registers	Name	Format	Unit	Value range	Access
1	2	Voltage V _{a-n}	Float	V	-	R
3	2	Voltage V _{b-n}	Float	V	-	R
5	2	Voltage V _{c-n}	Float	V	-	R
7	2	Voltage V _{a-b}	Float	V	-	R
9	2	Voltage V _{b-c}	Float	V	-	R
11	2	Voltage V _{c-a}	Float	V	-	R
13	2	Current a	Float	A	-	R
15	2	Current b	Float	A	-	R
17	2	Current c	Float	A	-	R
19	2	Apparent Power a	Float	VA	-	R
21	2	Apparent Power b	Float	VA	-	R
23	2	Apparent Power c	Float	VA	-	R
25	2	Active Power a	Float	W	-	R

https://cache.industry.siemens.com/dl/files/150/26504150/att_906558/v1/A5E01168664B-04_EN-US_122016_201612221316360495.pdf

and “paste” in a file or UI

modbus:

- name: hub1
- type: tcp
- host: IP_ADDRESS
- port: 502
- binary_sensors:
 - name: my_relay
 - address: 100
 - device_class: door
 - input_type: coil
 - scan_interval: 15



13 000 Similar Cases for Modbus in Home Assistant!
Also: 14.8k in ioBroker

Powered by
Siemens
Industrial
Edge

Communication protocol *

Modbus TCP Connector

Name *

ModbusServer

IPv4 address *

10.14.6.99

IP Port Number *

502

Slave Address *

1

Layout *

CDAB

Acquisition Mode *

CyclicOnChange

Response timeout (ms)

1000

☐ Zero based addressing

☐ Change bit order

☐ Use single write

and “paste” in a file or UI



```
<tag>
  <tagDefinition>
    <unitId>0</unitId>
    <startIdx>11</startIdx>
    <readType>HOLDING_REGISTERS</readType>
    <dataType>INT_64</dataType>
  </tagDefinition>
  <tagName>myTag</tagName>
</tag>
```

The Node-RED logo, consisting of a red square with a white icon of three connected nodes and the text "Node-RED" in white below it.

Edit Modbus-Read node

Delete Cancel

Properties

Settings Options

Name Read Holding Registers

Topic holdingRegisters

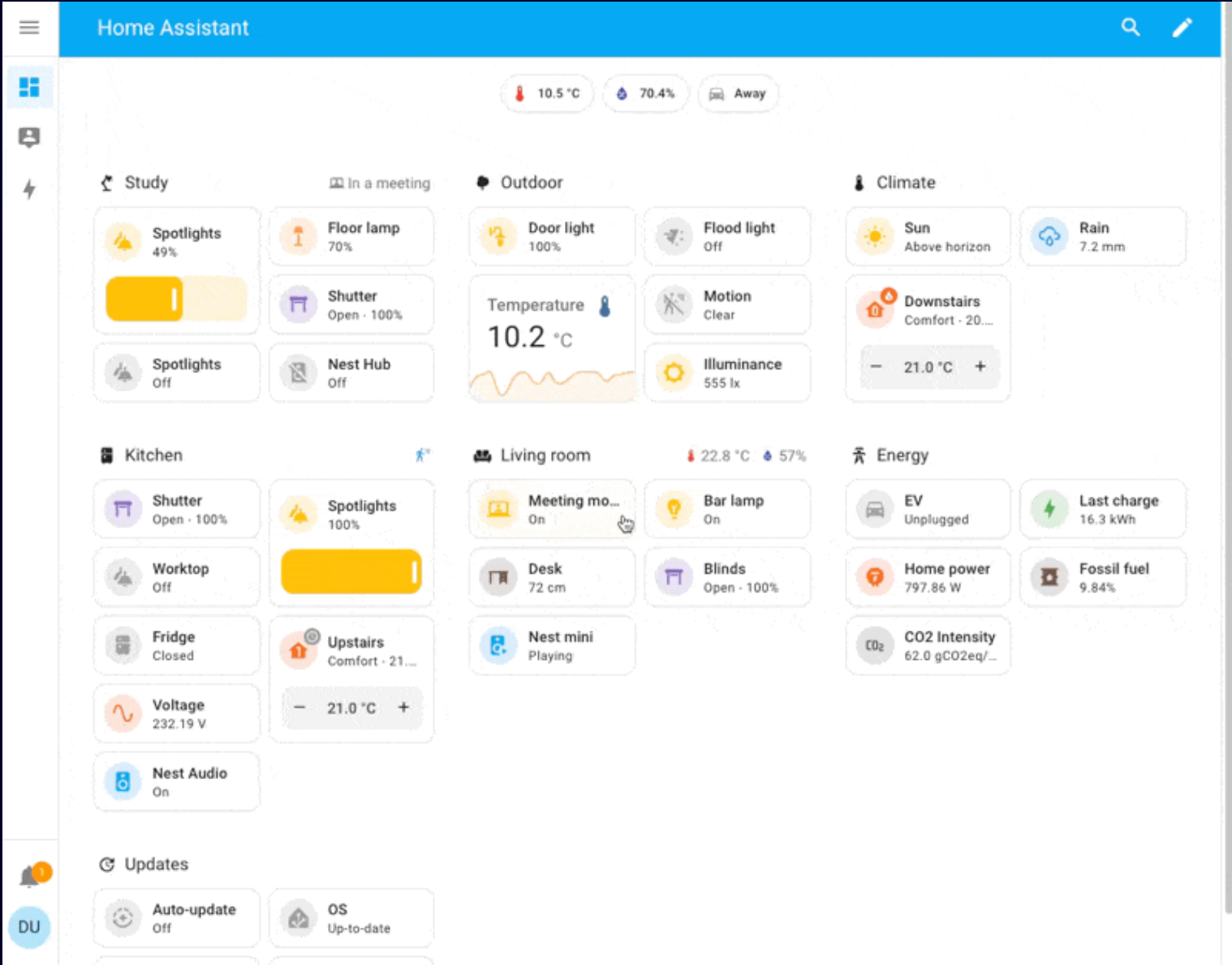
Unit-Id

FC FC 3: Read Holding Registers

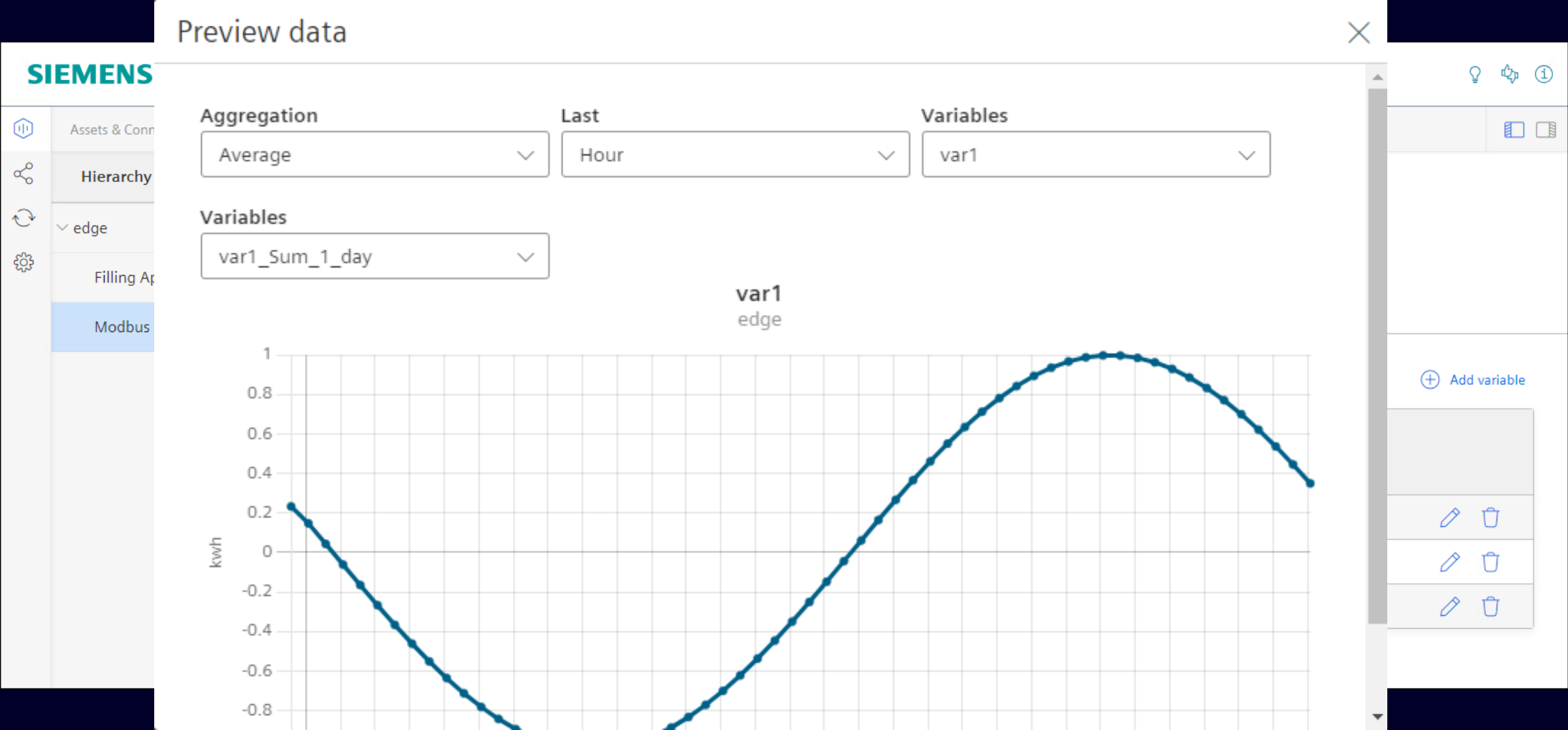
Address 0

Quantity 4

End Goal

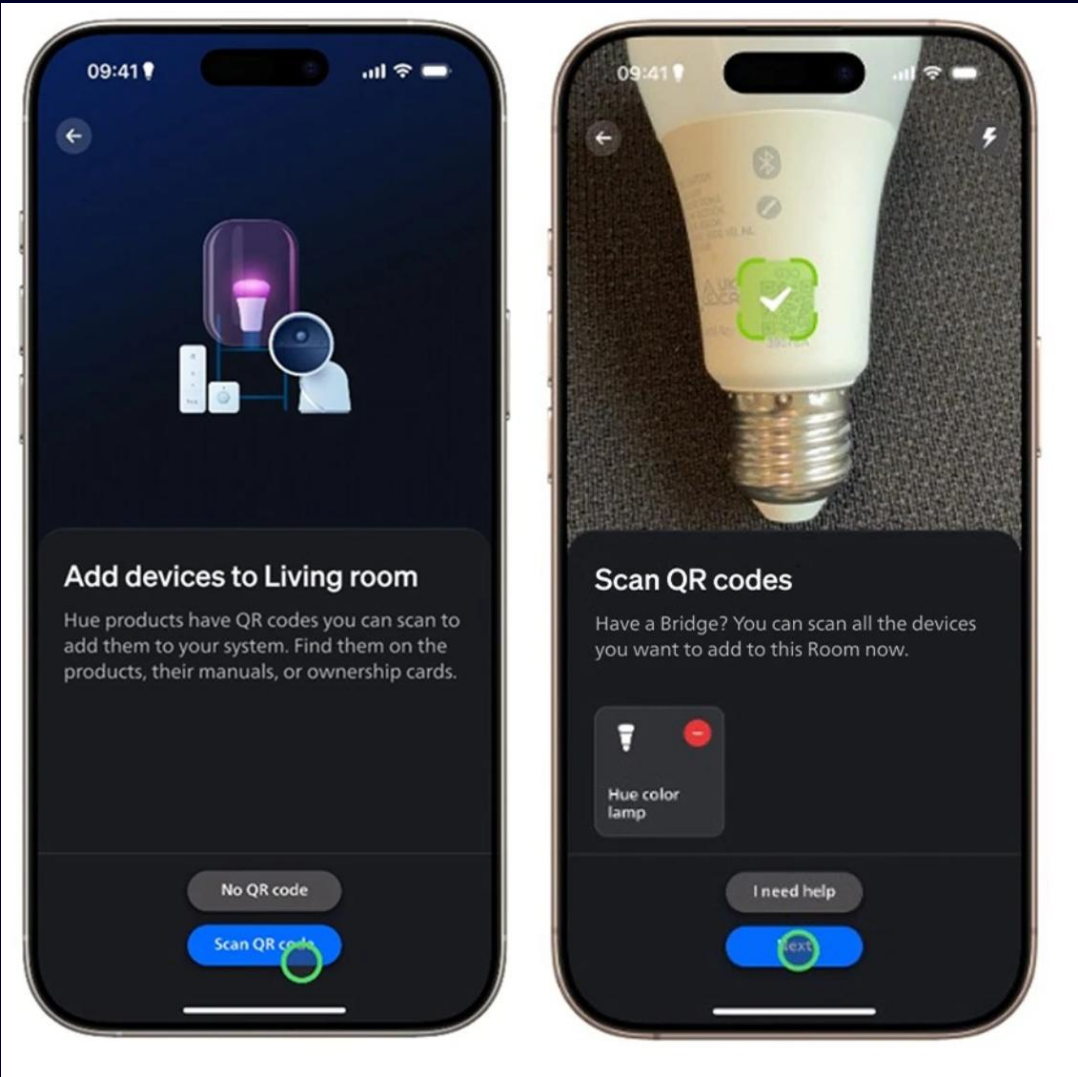


End Goal



One way to solve it:
Mandate everything,
create a closed-ecosystem

Philips Hue and Matter in Smart Home



Matter Standardization: Specify How Color MUST be represented

```
90 <attributes>
91   <attribute id="0x0000" name="CurrentHue" type="uint8" default="0">
92     <access read="true" readPrivilege="view"/>
93     <quality persistence="nonVolatile" reportable="true"/>
94     <mandatoryConform>
95       <feature name="HS"/>
96     </mandatoryConform>
97     <constraint>
98       <between>
99         <from value="0"/>
100        <to value="254"/>
101      </between>
102    </constraint>
103  </attribute>
104  <attribute id="0x0001" name="CurrentSaturation" type="uint8" default="0">
105    <access read="true" readPrivilege="view"/>
106    <quality scene="true" persistence="nonVolatile" reportable="true"/>
107    <mandatoryConform>
108      <feature name="HS"/>
109    </mandatoryConform>
110    <constraint>
111      <between>
112        <from value="0"/>
113        <to value="254"/>
114      </between>
115    </constraint>
116  </attribute>
```

Ontologies anywhere?

Downside: Wait 30+ months to control solar panels and heat pumps

● November 7, 2024

Matter 1.4

Matter 1.4 introduced new device types like solar panels, batteries, heat pumps and water heaters. These additions, along with improvements to the energy management and thermostat clusters, pave the way for smarter, more automated energy management within the home along with better management of credential sharing using **HRAP**, **Enhanced Multi-Admin**, and **Long Idle Time**.

● February 2022

Matter 1.0

The initial public release of the Matter standard, which marked the official launch.

Other way to solve it:
Create integrations to these
platforms

1. Which device?

Rather huge device portfolio!



Current protection

3RW soft starter →	ET 200SP e-Starter →	ET 200SP motor starter →
3RM1 motor starter →	M200D motor starter →	ET 200pro motor starter →
Solid-state switching devices →	SIRIUS Starter Kits hybrid switching technology →	

Motor starters

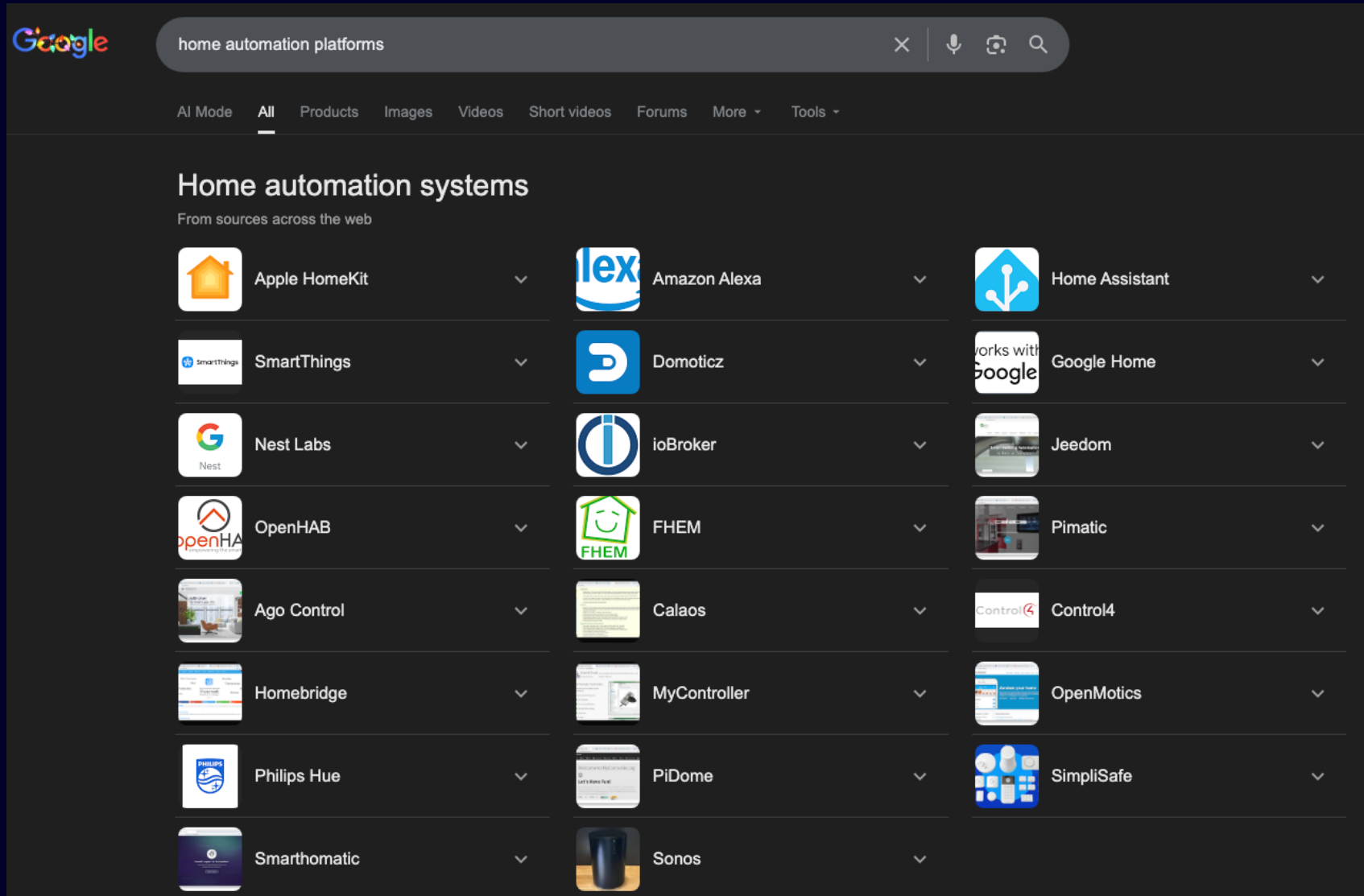


Each is a family with many subtypes



Servo drives

2. Which platform?



- Not all are platforms
- Still too many
- All with their own device modeling language

Similar Concepts in Device Description Languages

Azure DTDL



properties

telemetry

commands

Matter



attributes

events

commands

Keypware

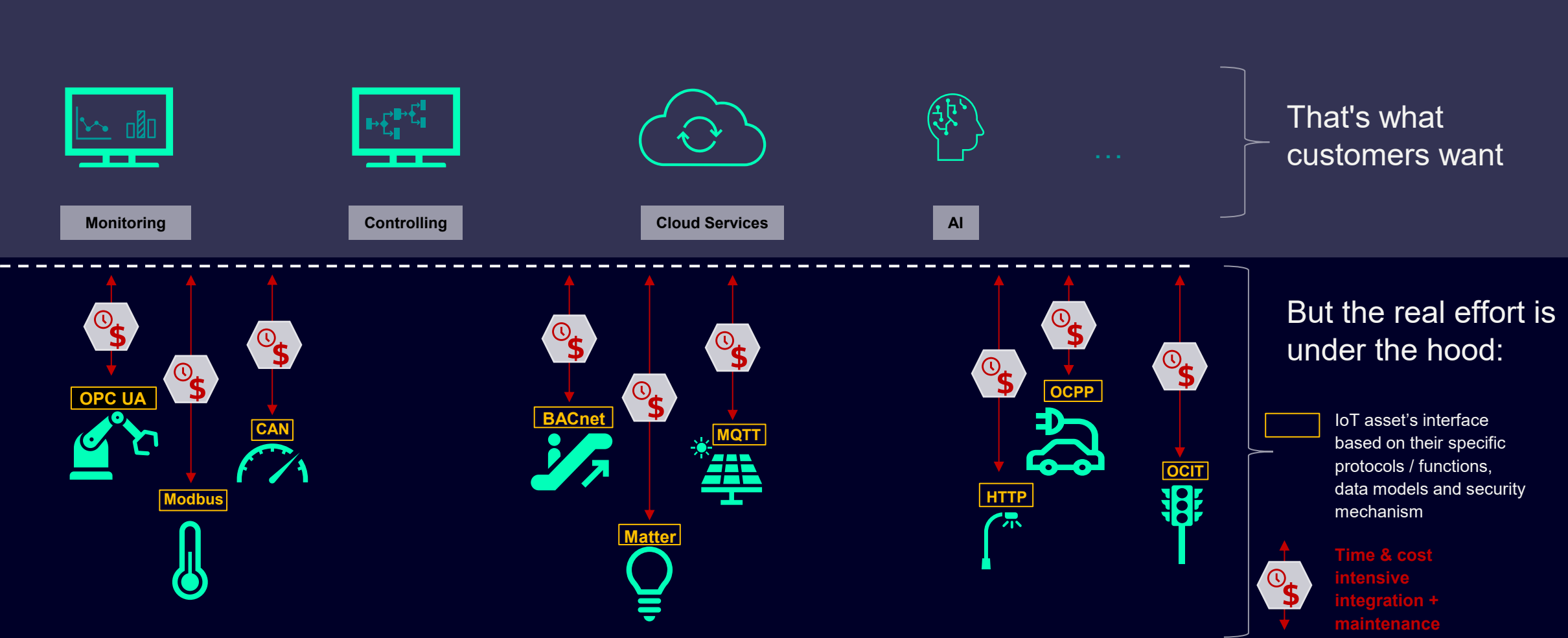


properties

events

services

There is a common problem if you want to use Things smart: Onboarding



And then we wonder
why IoT products and
projects fail to scale...

Similar Concepts in Device Description Languages

Azure DTDL



properties

telemetry

commands

Matter



attributes

events

commands

Keypware



properties

events

services

Web of Things

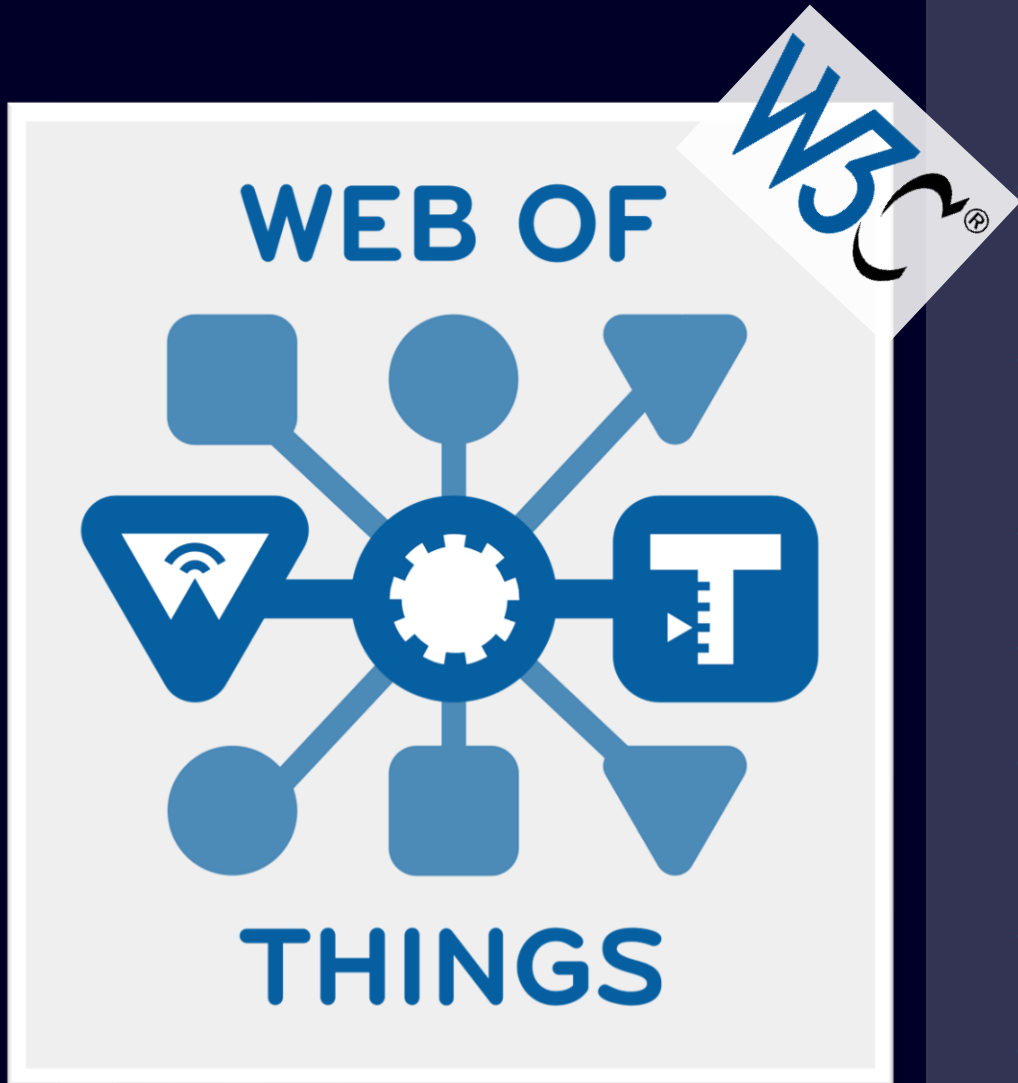


properties

events

actions

Enter the W3C Web of Things



- Based on IT-Friendly technologies, reuse established Web standards
- Works with all protocols (MQTT, HTTP, Modbus, OPC UA, BACnet, KNX IoT,...)
- Adapts to any application domain
- Local, Edge, Cloud
- Key technology: Standardized Device Description Language called **WoT Thing Description (TD)**, a JSON-LD file
- Open and royalty-free W3C standard
- Published the 1.1 version; currently working on WoT 2.0

WoT Thing Description

Standardized machine and human readable device interface descriptions

```
1 {
2   "@context": "https://www.w3.org/2022/wot/td/v1.1",
3   "title": "Siemens SENTRON PAC4200",
4   "base": "modbus+tcp://192.168.10.100:502/1/",
5   "description": "The SENTRON PAC4200 is a measuring device for",
6   "support": "https://support.industry.siemens.com/dl/dl-media",
7   "securityDefinitions": {
8     "nosec_sc": {
9       "scheme": "nosec"
10    }
11  },
12  "security": "nosec_sc",
13  "properties": {
14    "voltage_l1_n": {
15      "title": "Voltage L1-N",
16      "type": "number",
17      "unit": "V",
18      "forms": [
19        {
20          "href": "40001?quantity=2",
21          "contentType": "application/octet-stream",
22          "modv: function": "readHoldingRegisters",
23          "modv: type": "xsd:float",
24          "modv: mostSignificantByte": true,
25          "modv: mostSignificantWord": true,
26        }
27      ]
28    },
29    "voltage_l2_n": {
30      "title": "Voltage L2-N",
31      "type": "number",
32      "unit": "V",
33      "forms": [
34        {
35          "href": "40003?quantity=2",
36          "contentType": "application/octet-stream",
```



Web of Things (WoT) Thing Description

W3C Recommendation 9 April 2020 (Link errors corrected 23 June 2020)



This version:

<https://www.w3.org/TR/2020/REC-wot-thing-description-20200409/>

Latest published version:

<https://www.w3.org/TR/wot-thing-description/>

Latest editor's draft:

<https://w3c.github.io/wot-thing-description/>

Implementation report:

<https://w3c.github.io/wot-thing-description/testing/report.html>

Previous version:

<https://www.w3.org/TR/2020/PR-wot-thing-description-20200130/>

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[File a bug](#)
[Commit history](#)
[Pull requests](#)

Contributors:

[In the GitHub repository](#)

Repository:

[We are on GitHub](#)
[File a bug](#)

Please check the [errata](#) for any errors or issues reported since publication.

See also [translations](#).

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Abstract

WoT Thing Description

Standardized machine and human readable device interface descriptions

```
1 {
2   "@context": "https://www.w3.org/2022/wot/td/v1.1",
3   "title": "Siemens SENTRON PAC4200",
4   "base": "modbus+tcp://192.168.10.100:502/1/",
5   "description": "The SENTRON PAC4200 is a measuring device for",
6   "support": "https://support.industry.siemens.com/dl/dl-media",
7   "securityDefinitions": {
8     "nosec_sc": {
9       "scheme": "nosec"
10    }
11  },
12  "security": "nosec_sc",
13  "properties": {
14    "voltage_l1_n": {
15      "title": "Voltage L1-N",
16      "type": "number",
17      "unit": "V",
18      "forms": [
19        {
20          "href": "40001?quantity=2",
21          "contentType": "application/octet-stream",
22          "modv:action": "readHoldingRegisters",
23          "modv:type": "xsd:float",
24          "modv:mostSignificantByte" : true,
25          "modv:mostSignificantWord" : true,
26        }
27      ]
28    },
29    "voltage_l2_n": {
30      "title": "Voltage L2-N",
31      "type": "number",
32      "unit": "V",
33      "forms": [
34        {
35          "href": "40003?quantity=2",
36          "contentType": "application/octet-stream",
```



Provides details about ...

- ... the interface endpoint
(e.g., IP and port address) ✓
- ... the used protocols and serializations
(e.g., Modbus, OPC UA, UA Binary, JSON, ...) ✓
- ... what kind of data and functions are served
(e.g., voltage values, on/off,...) ✓
- ... how the payload structure look like
(e.g., simple types, complex types) ✓
- ... context and semantics
(e.g., based on ECLASS, OPC UA DM, ...) ✓
- ... security requirements
(e.g., Bearer, OAuth2, ...) ✓

WoT Thing Description

Choose any ontology

```
"@type": "saref:LightSwitch",
```

```
"status": {  
  "@type": "saref:OnOffState",  
  "type": "string",
```

```
"type": "number",  
"unit": "om:kilovolt",  
"@type": "opcua_30141:AcVoltagePe_UL1N"
```

```
"modv:function": "readHoldingRegisters",  
"modv:type": "xsd:float",  
"modv:mostSignificantByte" : true,  
"modv:mostSignificantWord" : true,
```

Add any JSON-LD Context Extension

... SAREF

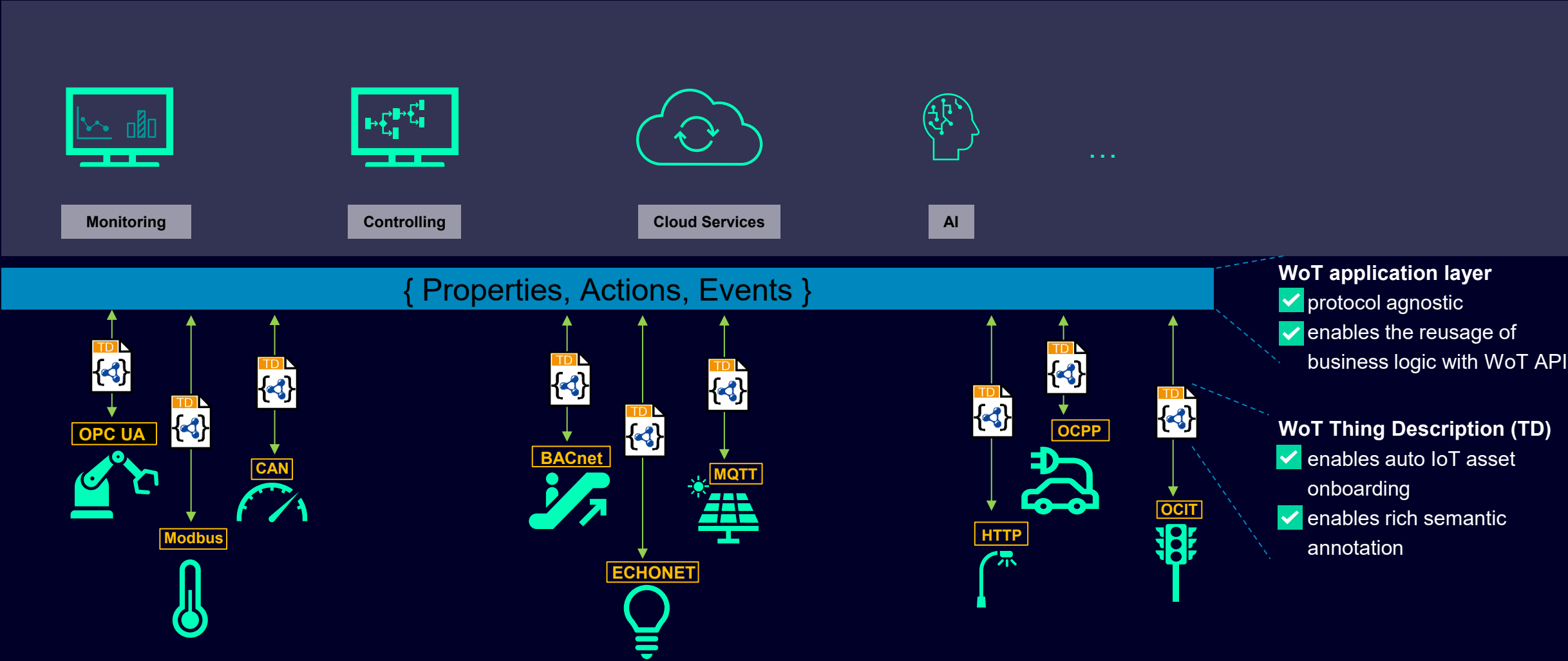
... Units of Measurement

... OPC UA Information Models

... Protocol-specific vocabularies

... Company-internal ontologies

W3C WoT simplifies the Thing onboarding and IoT application development



Do we expect people to write Thing Descriptions?

Example TD for the Node-RED example from before

Edit Modbus-Read node

Delete

Cancel

Done

Properties

Settings

Optionals

Name

Read Holding Registers

Topic

holdingRegisters

Unit-Id

FC

FC 3: Read Holding Registers

Address

0

Quantity

4

Poll Rate

1

second(s)

Delay to activate input



TD Extract



```
"base": "modbus+tcp://192.168.0.10:502",
...
{
  "href": "0?quantity=4",
  "modv:function": "readHoldingRegisters",
  "modv:type": "xsd:float",
  "modv:mostSignificantByte": true,
  "modv:mostSignificantWord": true
}
```

repeats for each instance



Thing Model Catalog

 README

 Apache-2.0 license

Thing Model Catalog CLI

go report

A+

release

v0.1.2

go.dev

docs

license scan

passing



Thing Model catalog

Find, use and contribute device descriptions for industrial IoT devices!

Usage:

tmc [command]

Available Commands:

attachment	Manage TM attachments
check	Check the integrity of all or only named resources in repository's internal index
completion	Generate the autocompletion script for the specified shell
copy	Copy multiple TMs and their attachments from one repository to another
create-si	Create or update search index
delete	Delete a TM by id
export	Export multiple TMs from a catalog and, optionally, their attachments
fetch	Fetch a TM by name or id
help	Help about any command
import	Import a TM or a directory with TMs into a catalog
index	Refresh the repository's internal index, if it has one
list	List TMs in catalog
repo	Manage repositories
search	Search full text of TMs in catalog using bleve search engine
serve	Start a REST API server
validate	Validate a TM before importing
version	Show tmc version information
versions	List available versions of the TM with given name

<https://www.github.com/wot-oss/tmc>

Also available with a REST API

First sightings in the wild



Pedram Hadjian • 1st
Siemens Software Strategy & Architecture
8mo • Edited • 

🎄 It's Beginning to Look a Lot Like Christmas... 🎄

We're delighted to announce the release of official W3C Thing Models (TMs) for our Siemens SENTRON Smart Fuses, now available under the Apache 2.0 license! These models make it easier than ever for system integrators to incorporate our devices into any IoT platform.

With these Thing Models, you can accelerate integration and simplify the development of advanced automation solutions.

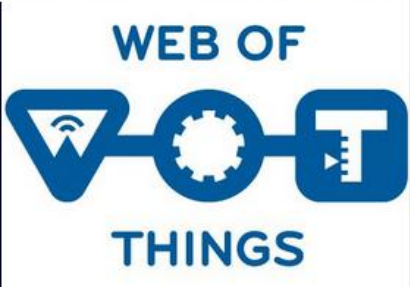
Explore the models on github:
<https://lnkd.in/eZxT7M-R>

Our Sentron Smart Fuses:
<https://lnkd.in/ecpKF5yC>

If you're new to the Web of Things, have a look at the standard:
<https://lnkd.in/erzQtVaN>

This is our commitment to fostering openness and interoperability in the IoT ecosystem. Let's make buildings smarter and operations smoother together!

#IoT #ThingModels #OpenSource #SiemensSENTRON #BuildingAutomation #



[thingmodels](#) / [siemens](#) / siemens / 

 alexbrdn add README.md; remove non-compliant TM for PAC3220

Name
..
3nacom-fuse
3rv2com-msp
5sl6-com-mp-mcb-rcm
5sl6com-mcb-rcm
5sl6com-mcb
5st3com-asfc
5st3com-rca-rkdir
5st3com-rca
5sv6com-afdd
5sv8com-rcm
5ty-com-ecpd
poc1000

SENTRON Smart Fuses

Apache License

Manufacturer Publication

Take it and use it 😊

First sightings in the wild

SIEMENS

Register

Log in

SiePortal

Region and language

Contact

Help

Support Request

Search in SiePortal

Home

Support

Knowledge base

Entry type: Download Entry ID: 109973540, Entry date: 05/20/2026

★★★★★ (1)

Rate

Modbus Registers / WoT Device Models for SENTRON COM System

Entry

Associated product(s)

Modbus register and data point map and WoT Device Models (W3C) for fast and easy onboarding of data transceivers Powercenter 1000 / 1100 including all wireless communication-capable circuit protection switching devices.

Description:

Products & Services

Support

mySiePortal

Cart

Share this Page:

mySupport Cockpit

Add to mySupport favorites

Favorites

My requests

<https://support.industry.siemens.com/cs/document/109973540/modbus-registers-wot-device-models-for-sentron-com-system?dti=0&lc=en-VW>

  WebOfThings_ThingModel_CP_COM_V7-3_2026-05.zip (85,2 KB) (SHA-256)

Parameters: Which data each device provides (e.g., current values, voltage, energy consumption).

This detailed description enables easy and fast device onboarding. The goal is to provide a semantic description that allows software applications to automatically understand and interact with an unknown IoT device without requiring individual programming for each device. It promotes plug-and-play capability in the IoT domain, which significantly simplifies device integration and usage.

  WebOfThings_ThingModel_CP_COM_V7-3_2026-05.zip (85,2 KB) (SHA-256)

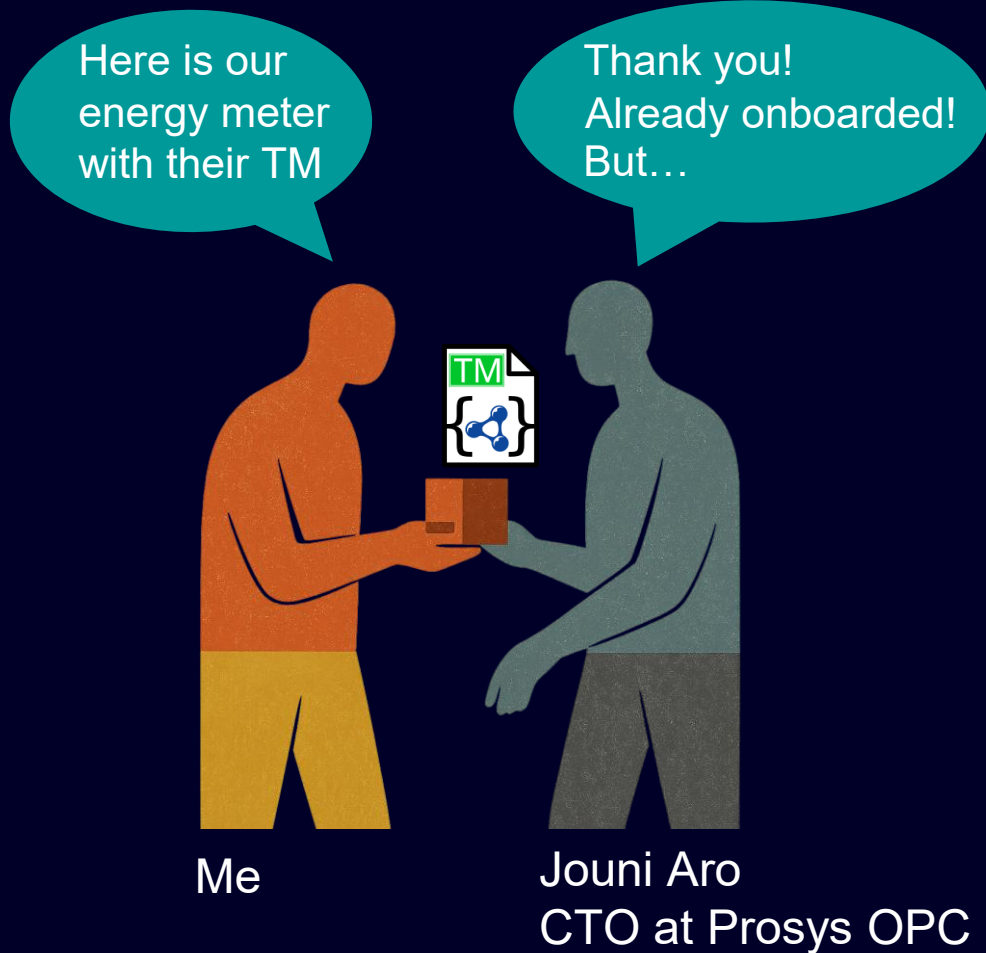
Security note:

The devices also have unpublished internal data points that are necessary for the function of the device or for production.

Where do we hit a limit

Take a TM, replace IP address and then?

Mapping/Matching of Properties to a desired Ontology, Model, Standard



I was also thinking that we should probably try to map these measurements to the ProfiEnergy Information model. Have you checked that and do you have any instruction how to map the original signals to the standard model?

<https://reference.opcfoundation.org/PNEM/v100/docs/>

I am now looking at the Energy Consumption Management standard a bit closer.

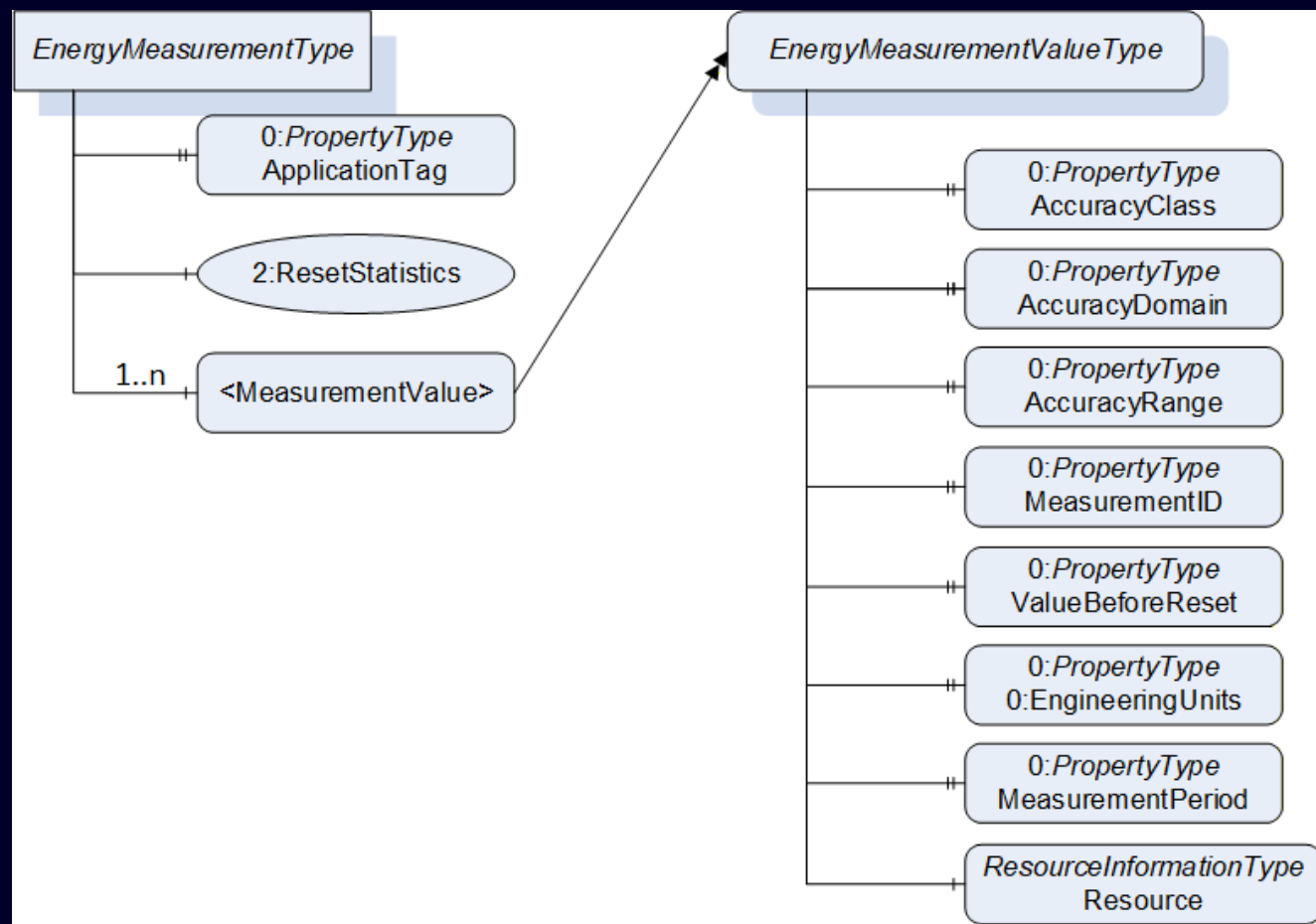
I wonder if you or your colleagues, could clarify, which measurements in the SENTRON meters, in fact, implement variables defined in the standard interfaces:

<https://reference.opcfoundation.org/ECM/v100/docs/7.1.3>

More Concretely

```
"apparent-power-l1": {
  "id": "11d54b26-a120-48ae-9d26-3ac339075fa9",
  "title": "Apparent power L1",
  "unit": "unit:V-A",
  "type": "number",
  "forms": [
    {
```

```
      "op": "readproperty",
      "total-active-power": {
        "id": "22a89901-fac6-4c9a-a16a-086a7ea39581",
        "title": "Total Active Power",
        "unit": "unit:W",
        "type": "number",
        "forms": [
          {
            "op": "readproperty",
            "modv:address": 65,
            "modv:dataType": "float32",
            "modv:endianness": "big_abcd",
            "modv:entity": "HoldingRegister",
            "modv:function": "readHoldingRegisters",
            "modv:quantity": 2,
            "href": "65?quantity=2"
          }
        ]
      }
    ]
  },
}
```



Mapping/Matching of Properties to a desired Ontology, Model, Standard

I am preparing the demo and currently figuring out the mappings from the Siemens Energy Meter into the ECM model that Jouni linked previously.

I chatted with ChatGPT about this model and it gave me the following mapping:

IEnergyProfileE3Type requires these variables. OPC-34100-v1.0.0.md

E3 variable	Suitable PAC4220 WoT source	Register(s)	Notes
AcVoltagePe	v.Inst.Value.L1N, L2N, L3N	2, 4, 6	Direct mapping

⋮

AcReactiveEnergyTotalExportHp	derive by integrating negative reactive power	—	software counter
-------------------------------	---	---	------------------

IEnergyProfileE3Type (left column) is a pre-defined set of variables. According to ChatGPT that could be the most suitable for this use-case. There are few variables that doesn't have mapping or ChatGPT couldn't find one.



28.05.2026
W3C Web of Things Community Group Online Meetup 34:

Quick onboarding of devices to Prosys Forge using OPC UA WoT Connectivity

Iivo Yrjölä
Lead Engineer,
Support & Integration
at Prosys OPC



Jouni Aro
CTO
at Prosys OPC



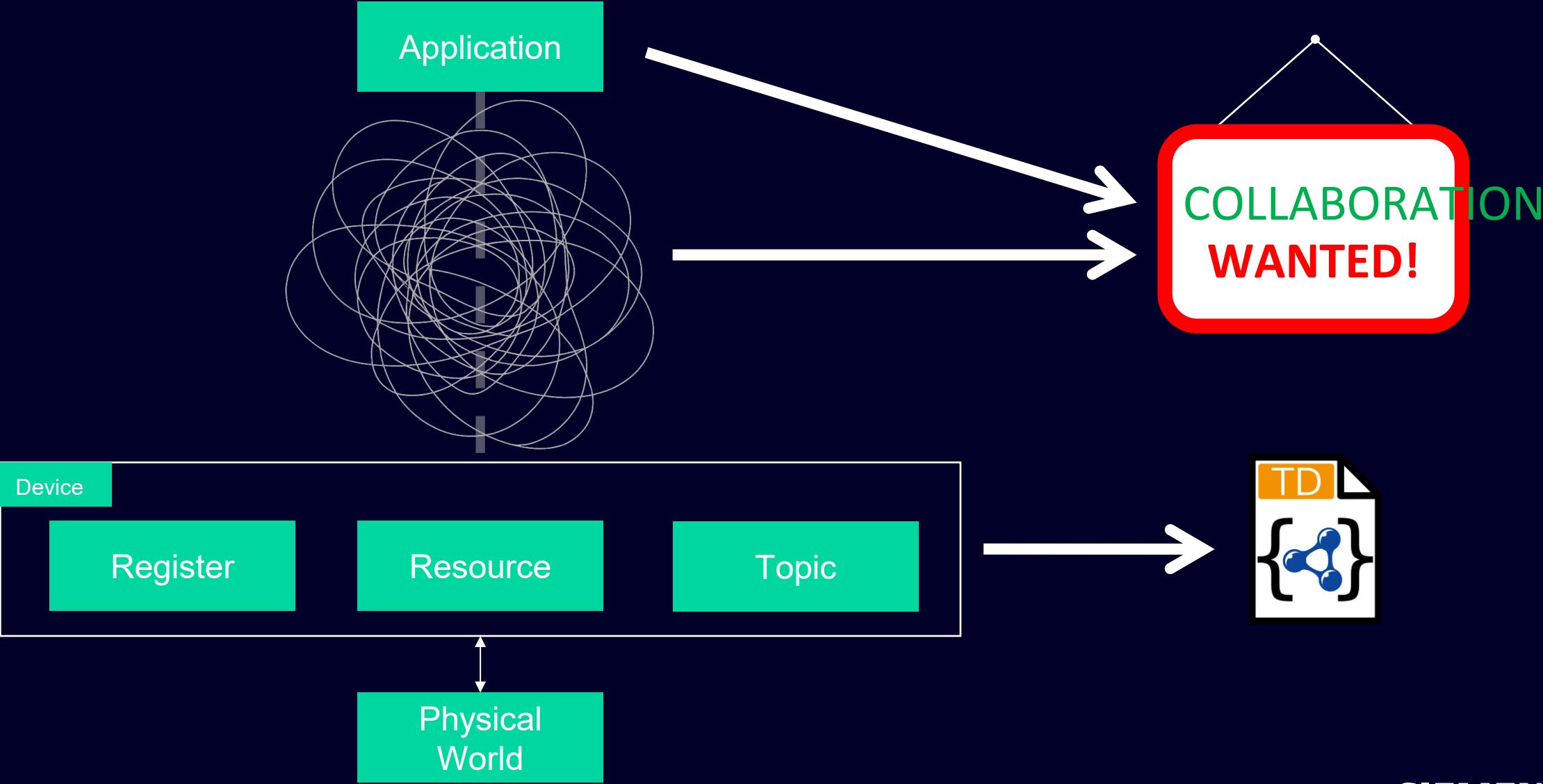


Quick onboarding of devices to Prosys Forge using OPC UA WoT Connectivity

<https://www.youtube.com/watch?v=I-suLrJDjd0>

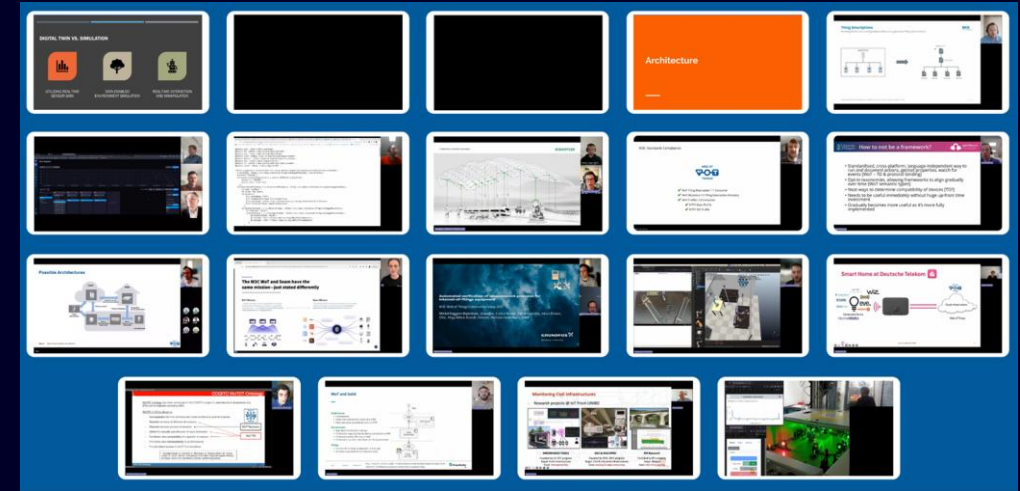
Can anyone untangle it all?

No one can



More about WoT!

Adoption in the Industry



34 Meetups and counting



WoT@Industry 2024 in Munich

SIEMENS

Perfect Time to Join the Working Group: Rechartering

New deliverables along with continuation of the current work.
Positions are available!

DRAFT Web of Things Working Group Charter

The **mission** of the [Web of Things Working Group](#) is to maintain and extend the [family of WoT deliverables](#) with new functionalities to support desired use cases. This work supports the overarching mission of the Web of Things to counteract fragmentation in the Internet of Things (IoT) by providing building blocks that enable seamless integration of devices and services across the IoT ecosystem.

[Join the Web of Things Working Group.](#)

This proposed charter is available on [GitHub](#). Feel free to raise [issues](#).

Charter Status	See the group status page and detailed change history .
Start date	<i>[dd monthname 2026] (date of the "Call for Participation", when the charter is approved)</i>
End date	<i>[dd monthname 2028]</i> (Start date + 2 years)
Chairs	Sebastian Kaebisch (Siemens), Michael Koster (Invited Expert), and Kazuyuki Ashimura (Invited Expert)
Team Contacts	Dave Raggett (0.2 FTE)
Meeting Schedule	Teleconferences: Weekly with additional topic specific calls as appropriate. Face-to-face: we will meet during the W3C's annual Technical Plenary week; additional face-to-face meetings may be scheduled by consent of the participants, usually no more than 3 per year.

Start time: September 2026

You can join beforehand too.

<https://w3c.github.io/wot/charters/wot-wg-2025-draft.html>

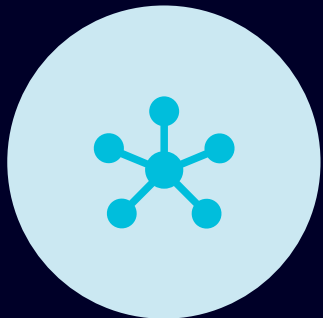
That's it!



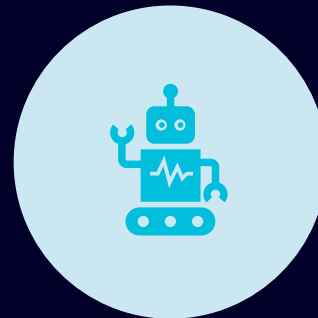
IoT is messy



WoT tackles the IoT mess



To bring seamless onboarding, ontologies are a must



Mapping to and using those ontologies seems to be an open question

Contact

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ege.korkan@siemens.com

Also on LinkedIn

Come by on Thursday to try out WoT yourself! (Demos, Stickers)



[W3C WoT Homepage](#)



[Community YouTube](#)



[Thing Description Standard](#)



[Community Discord](#)