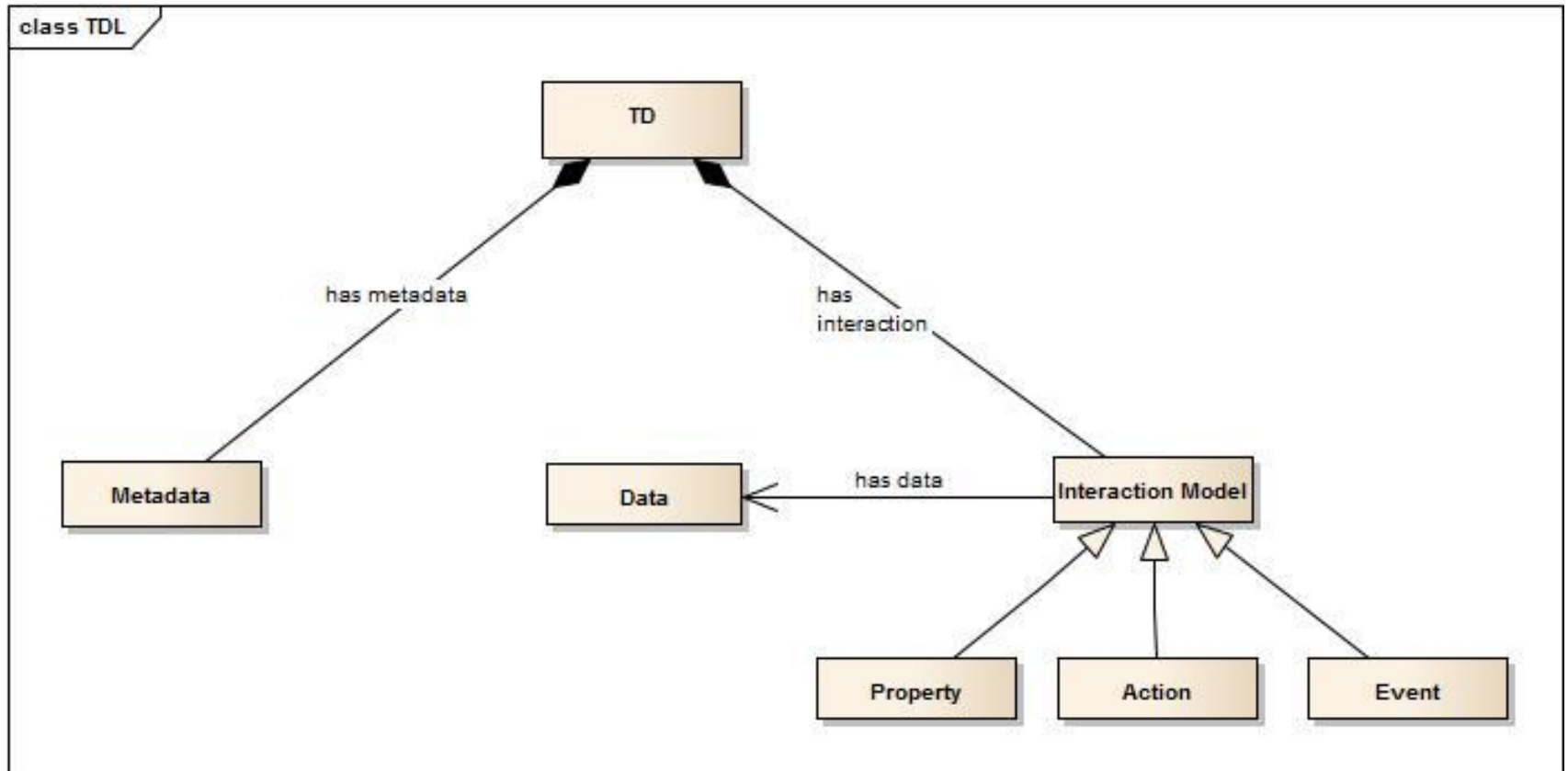


W3C WoT TD Breakout

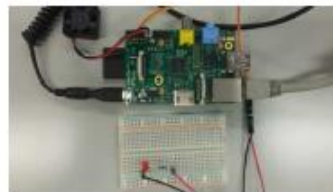
Sebastian Käbisch

Nice, France
February 2016

Current Working Assumption

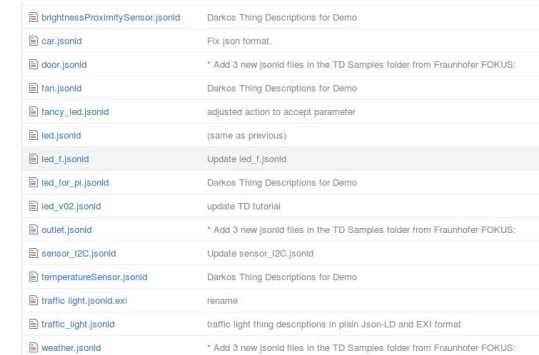


TD Plugfest



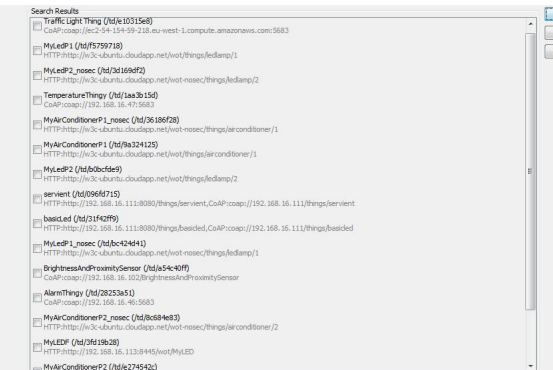
Plugfest Observations

- Sapporo
 - 15 TDs provided
 - mainly HTTP based, few CoAP
 - Easy and successful interaction (via browser, UI, cloud) to any provided Things
- Nice
 - 21TDs provided in the TD repository
 - mainly HTTP based, some more CoAP, individual WS, MQTT implementations
 - Successful discover of Things, interaction with Things, and setup Thing-2-Thing (T2T) interaction was shown



brightnessProximitySensor.jsonld	Darkos Thing Descriptions for Demo
car.jsonld	Fix json format.
door.jsonld	* Add 3 new jsonld files in the TD Samples folder from Fraunhofer FOKUS:
fan.jsonld	Darkos Thing Descriptions for Demo
fancy_led.jsonld	adjusted action to accept parameter
led.jsonld	(same as previous)
led_f.jsonld	Update led_f.jsonld
led_for_pi.jsonld	Darkos Thing Descriptions for Demo
led_v02.jsonld	update TD tutorial
outlet.jsonld	* Add 3 new jsonld files in the TD Samples folder from Fraunhofer FOKUS:
sensor_i2c.jsonld	Update sensor_i2c.jsonld
temperatureSensor.jsonld	Darkos Thing Descriptions for Demo
traffic_light.jsonld.exi	rename
traffic_light.jsonld	traffic light thing descriptions in plain Json-LD and EXI format
weather.jsonld	* Add 3 new jsonld files in the TD Samples folder from Fraunhofer FOKUS:

TD used in Sapporo



Search Results	
CoAP:coap://ec2-54-194-59-238.eu-west-1.compute.amazonaws.com:5683	
MyLED1 (/td/f579718)	HTTP:https://w3c-ubuntu.cloudapp.net/woi/things/ledlamp/1
MyLED2_nosec (/td/3a19a072)	HTTP:https://w3c-ubuntu.cloudapp.net/woi/nosec/things/ledlamp/2
TemperatureThingy (/td/Las3o15d)	CoAP:coap://192.168.16.47:5683
MyAirConditionerP1_nosec (/td/76186f28)	HTTP:https://w3c-ubuntu.cloudapp.net/woi/nosec/things/airconditioner/1
MyAirConditionerP1 (/td/aa324125)	HTTP:https://w3c-ubuntu.cloudapp.net/woi/things/airconditioner/1
MyLED2 (/td/b0b0c5e5)	HTTP:https://w3c-ubuntu.cloudapp.net/woi/things/ledlamp/2
servient (/td/0964715)	HTTP:https://192.168.16.111:8080/things/servient_CoAP:coap://192.168.16.111/things/servient
basiced (/td/314c07f)	HTTP:https://192.168.16.111:8080/things/basiced_CoAP:coap://192.168.16.111/things/basiced
MyLED1_nosec (/td/bc42444)	HTTP:https://w3c-ubuntu.cloudapp.net/woi/nosec/things/ledlamp/1
BrightnessAndProximitySensor (/td/a54c40f)	CoAP:coap://192.168.16.111:8080/things/BrightnessAndProximitySensor
AlarmThingy (/td/28253a51)	CoAP:coap://192.168.16.46:5683
MyAirConditionerP2_nosec (/td/8c84eb3)	HTTP:https://w3c-ubuntu.cloudapp.net/woi/nosec/things/airconditioner/2
MyLED (/td/5618c38)	MyLED (/td/5618c38)
MyLED (/td/5618c38)	HTTP:https://192.168.16.113:8445/woi/MyLED
MyAirConditionerP2 (/td/e274542d)	

TD used in Nice

What is missing / Unclear

- Protocols: how to set up IP addresses?
- How to setup data types with restrictions, e.g. with ranges?
- Security : Which resources has access restrictions?
- De-coupling: semantics / relation types from links
- REST-based topics:
 - Resource hierarchy missing (no *parentOf* and/or *childOf*)
 - Relative links vs. absolute links in interaction models
- How to include more semantics / other context

Agenda / Topics

- - scopes of TD in working group including semantics & metadata
- - complete tech landscape
- - ontology enrichments in TD
- - TD vs HATEOAS: comparison and integration
- - TD and Security
- - Processing & semantics for data models
- - Thing vs Server metadata
- - plans for the next plugfest

Agenda Proposal

- Today (morning) 1,5h
 - Feedback of plugfest
 - Problems
 - What is missing?
 - Tech Landscape
 - Thing vs Server metadata
 - Processing & semantics for data models
- Today (afternoon) 3h (Joint Meetings)
 - 13:30: TD + DI
 - 14:30: TD + AP (TD vs HATEOAS: comparison and integration)
 - 16:00: SP + TD (TD and Security)

Agenda Proposal

- Tomorrow (2h)
 - ontology enrichments in TD
 - scopes of TD in working group including semantics & metadata
 - (plans for the next plugfest)