

TD Report Sapporo

- **TD overview:**
https://www.w3.org/WoT/IG/wiki/images/8/82/Td_overview_sapporo.pdf
- **Plugfest:**
http://www.w3.org/WoT/IG/wiki/F2F_meeting_29-30_October_2015,_Sapporo,_Japan#Plugfest
- **Breakout:**
http://www.w3.org/WoT/IG/wiki/Breakout_topics_30-10-2015
- **Joint AdHoc Meeting: the WoT IG and SDW WG:**
http://www.w3.org/wiki/TPAC/2015/SessionIdeas#Space.2C_Time_and_Sensor_Semantics_in_the_Web_of_Things
- **Tech Landscape:** https://www.w3.org/WoT/IG/wiki/Wot-TD_Tech_Landscape

Plugfest

1st Plugfest

- Focus on Thing Description and Protocol Mapping
- Lighting Scenario
- 8 Independent Implementations


















Cortex M3 ES9288

ARM 9

TPAC • Sapporo • 2015 • W3C Technical Plenary / Advisory Committee Meetings Week

Used TD

..

 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:

<https://github.com/w3c/wot/tree/master/TF-TD/TD%20Samples>

Plugfest Feedback

- Plugfest members provided 14 different TD files
- Almost all of them were based on REST approach
- TD should also work for non-REST based approaches (e.g., Web Socket, XMPP, etc.)
- We need more example for non-REST based approaches --> RWE will provide an TD based on Lemonbeat demo
- There will be a clear process how the concrete binding for HTTP, CoAP, XMPP, etc. will look like based on a given TD
- Discussion on sufficient information provided by a TD
 - Functional semantics, hypermedia controls (presentation on RAML and similar approaches wanted)
- Ideas and plan for the next Plugfest

Breakout

- EXI 4 Thing Description

- EXI introduction

- Recent EXI Activities

- EXI profile

- Canonical EXI

- JSON Support

- Data compaction measurements

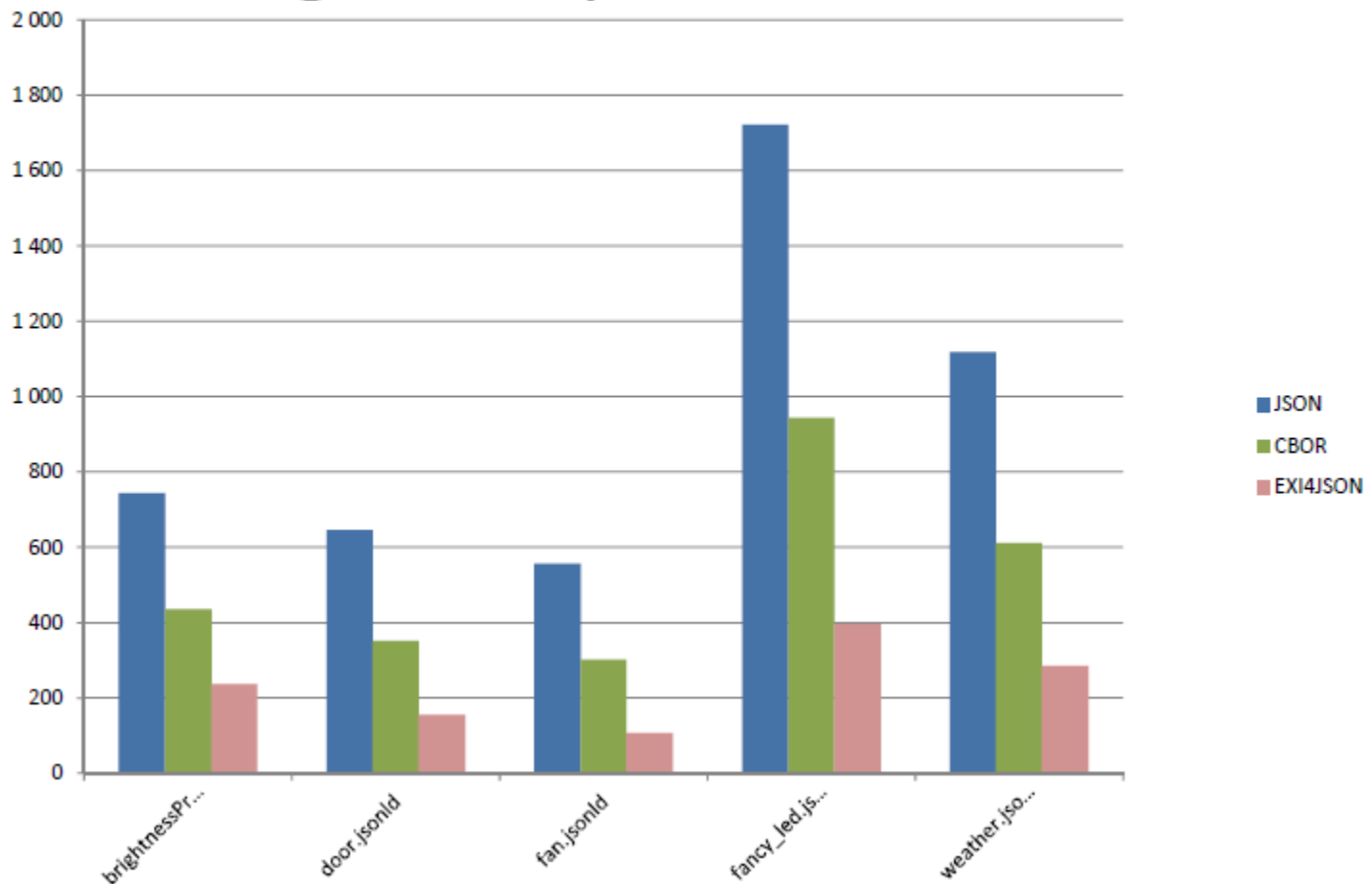
- JSON, CBOR, EXI4JSON

- Slides:

- https://www.w3.org/WoT/IG/wiki/images/5/56/EXI_4_TD.pdf

JSON-LD

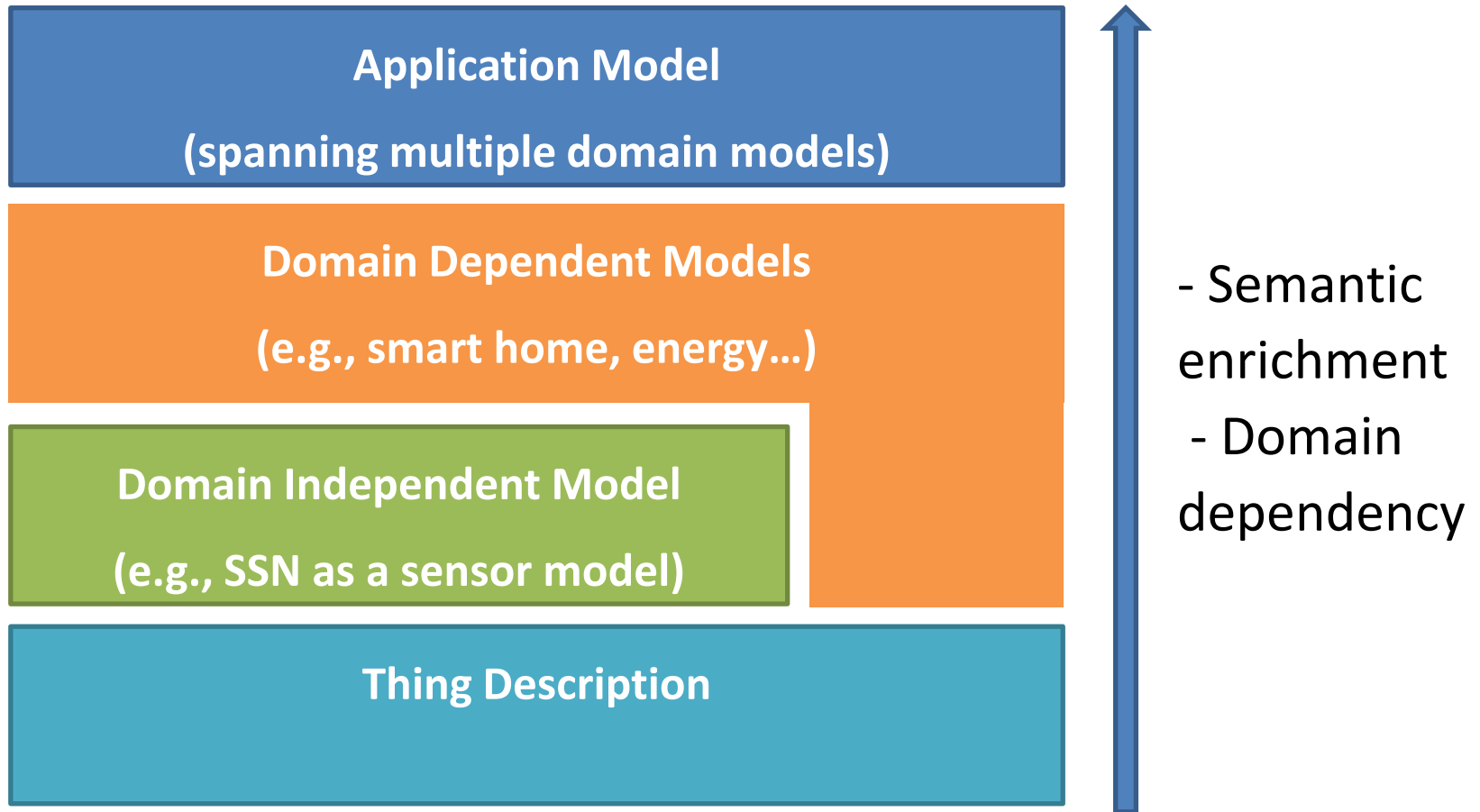
Thing Description test-files



Breakout Cont'd

- Extending TD with context
 - TD provides non-contextual (string-based) information about a thing
 - A mechanism to extend the TD with domain independent (e.g., SSN) and domain dependent models (e.g., Haystack)
 - Slides:
https://www.w3.org/WoT/IG/wiki/images/1/19/W3C_WoT_IG_Sapporo_TD_BreakUp_Darko_Anici_c.pptx

Possible Contextual Abstraction Layers of Semantic Models



Joint AdHoc Meeting: the WoT IG and SDW WG

- Possibility for collaboration
 - SSN and Time ontologies
 - Extensions for actuators
 - Examples to create, e.g., spanning over TDs and SSN
- See Wiki:
[http://www.w3.org/wiki/TPAC/2015/SessionIdeas#Space.2C Time and Sensor Semantics in the Web of Things](http://www.w3.org/wiki/TPAC/2015/SessionIdeas#Space.2C_Time_and_Sensor_Semantics_in_the_Web_of_Things)
- Agenda, meeting notes and minutes:
<http://www.w3.org/wiki/Sdwmeetswotattpac2015>

Tech Landscape

- First step is to create structure of the Tech Landscape
 - Volunteers needed
- Second step is to create the document in GIT
- See Wiki:
https://www.w3.org/WoT/IG/wiki/Wot-TD_Tech_Landscape#1. Thing Description Model and Vocabulary