TD Restructuring
Web Meeting, 26. October 2016

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Agenda

1) Logistics
2) Discussion about JSON-LD 1.1
3) Prop. vs Actions (continue discussion)
4) URL vs URI (vs @id)
5) Issues overview & which one can be closed?

Logistics & Updates

- Web Meeting each Wednesday 9-10:30 am (CEST)
- IRC: #wot-td
- this Web meeting is scheduled until 1. November
  - enough time for next plugfest
  - setup current practice document
- Add your proposals as pull request in https://github.com/w3c/wot/tree/master/proposals/td-restructuring
- Use github for issue and proposal discussion https://github.com/w3c/wot/issues
- resolved issues will be closed
  - closed issue will be memorized if there is an impact on the current practice document by using this issue https://github.com/w3c/wot/issues/262

JSON-LD 1.1

- There is a community for a JSON-LD 1.1 version

- See discussion https://github.com/w3c/wot/issues/259

- we can provide some inputs (what are we missing so far?)

Properties vs Actions I / II

View Point	Property	Actions
W3C WoT Today	Static / dynamic states e.g., read temperature, read / set rgbValue	Any function or ‚Has a start and an end' e.g., fadeIn, openDoor
Dom / Web Thing Model / OO-style	only readable states	any functions, e.g., enable/disable smoke alarm,…
Kajimoto-san / SDOs	Internal Software Status e.g., read / set firmwareVersion	Device Hardware Status e.g., ledOnOff, fadeIn
API Levels	low level API e.g., set LED light on/off, read/set firmwareVersion	complex high level API cook pasta which consists of boiling pasta …
No Property and Action	There are some key value pairs in the interaction resource (e.g., writable, asynchrone, …) set LED light on/off, read/set firmwareVersion, fadeIn, openDoor	

Also see https://github.com/w3c/wot/issues/247

Properties vs Actions II / II

View Point	Property	Actions

OneM2M	Two kind of 'Properties':
	 1) property:
	     -only for static values/state (e.g., serial-no)
	     - non-functional information
	 2) datapoint:
	     - stateless operations (e.g., on/off state of switch)
	     - functional information (e.g., target temperature)
		stateful condition, handling unknown internal state conditions (e.g., upVolume, downVolume)

- many different view points about Properties and Actions in IoT standards and activities
- current discussion outcome (see https://github.com/w3c/wot/issues/247):
    - à TD shall not have hard rules

- how does the soft rules look like? E.g.,
    - An Action may initiate a process.
    - An Action has a start and an end.
    - A Property may reflect a readable and/or writable value state.
    - ...

URL vs URI (vs @id)

- See discussion
  https://github.com/w3c/wot/issues/255

- The proposal use URL within the endpoint definition, URI seems to be more generic

- Alternative: @id?

Overview of Additional TD Issues I / II

- Templates for properties, actions, and events
  https://github.com/w3c/wot/issues/254
  à can we close or move?

- Simplify Properties/Actions/Events definition in TD
  https://github.com/w3c/wot/issues/258
   à can we close?

- Allow the definition of resource parameters in TD
  https://github.com/w3c/wot/issues/264
  à please comment

Overview of Additional TD Issues II / II

- Separating discussion of requirements from serialization formats
  https://github.com/w3c/wot/issues/257
  à no volunteer yet

- Compound properties
  https://github.com/w3c/wot/issues/256

- Fields for interface generation (e.g. UI, dashboards, IDE): description, icon
  https://github.com/w3c/wot/issues/263
  à new issue, please comment