TD Restructuring Web Meeting, 19. October 2016

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Agenda

- 1) Logistics & Updates
- 2) Prop. vs Actions (continue discussion)
- 3) Naming of `encoding` in TD
- 4) Endpoint information within resource definition
- 5) Issues overview

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 using this issue https://github.com/w3c/wot/issues/262
- Update: JSON-LD 1.1 discussion will be continued next week

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., fadeln, 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
 - à open to solution designer / developer how to expose resources
 - à TD shall be flexible and powerful enough to interwork with most of IoT approaches such as IoT standards (this is also the motivation of the issue https://github.com/w3c/wot/issues/258)
- WoT (IG?) can provide some patterns or guideline?

Naming of `encoding` in TD

- See https://github.com/w3c/wot/issues/253
- replace 'encoding' in TD with:
 - format,
 - representationType,
 - mediaType,
 - dataFormat, or
 - contentType
- I think, mediaType and contentType quite common used
 - à TD should reley in one of them
 - à close this issue until end of this week

Endpoint information within resource definition

- See discussion https://github.com/w3c/wot/issues/255
- current TD version is quite static regarding endpoint information (e.g., url and encoding/mimeType)
 - How to assign different protocols and/or encodings to Properties, Actions, and Events?
- à allow local resource endpoint definition
- introduce global and local scopes?
 - à E.g., Top level encoding declaration could be overridden by lower level encoding declaration.

Overview of Additional TD Issues I / II

- Templates for properties, actions, and events https://github.com/w3c/wot/issues/254
- Allow the definition of resource parameters in TD
 - https://github.com/w3c/wot/issues/264
- Compound properties
 https://github.com/w3c/wot/issues/256

Overview of Additional TD Issues II / II

Separating discussion of requirements from serialization formats

https://github.com/w3c/wot/issues/257