

W3C WoT WG
Thing Description
Recap & Next Steps

Prague F2F 2018

Recap I

Simplified TD

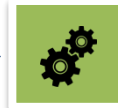
- rely on JSON-LD 1.1 → TD gets more idiomatic JSON
- define Properties, Actions, and Events on top level and their *names* defined as keys
- enable global data type definition again → definitions term from JSON Schema
- make semantics and some terms optional → use JSON-LD 1.1. Framing for assigning default assumptions (see next slide)

```
{
  "name": "lamp",
  "@id": "urn:dev:wot:com:example:servient:lamp",
  "base": "https://servient.example.com/",
  "definitions": {
    "range": {
      "type": "integer",
      "minimum": 0,
      "maximum": 100
    }
  },
  "properties": {
    "on": {
      "type": "boolean",
      "forms": [{
        "href": "/things/lamp/properties/on" }]
      },
    "actions": {
      "fade": {
        "input": {
          "type": "object",
          "properties": {
            "from": "range",
            "to": "range"
          }
        },
        "forms": [{...}]
      }
    }
  }
}
```

Recap II

```
{
  "name": "lamp",
  "@id": "urn:dev:wot:com:example:servient:lamp",
  "base": "https://servient.example.com/",
  "properties": {
    "on": {
      "type": "boolean",
      "forms" [{
        "href": "/things/lamp/properties/on" }]
    }
  }
}
```

TD JSON-LD
Framing



```
{
  "@context": "https://.../w3c-wot-td-context.jsonld" ,
  "name": "lamp",
  "@id": "urn:dev:wot:com:example:servient:lamp",
  "base": "https://servient.example.com/",
  "properties": {
    "on": {
      "type": "boolean",
      "writeable": false,
      "observable": false,
      "forms" [{
        "href": "/things/lamp/properties/on",
        "mediaType": "application/json"
      }]
    }
  }
}
```

Recap III

New or renaming or restructuring of terms

- mandatory `@id` on top level
- top level: name: {“en”: “My Thing“, “de”: “Mein Ding“}
→ clarification with scripting API
- interactions name → label (have to be clarified)
- New (optional) description for top and interaction level
- optional support for top level
- (optional thingVersion → still some clarification, check existing definitions such as ontologies)

Next Step

- Resume web meetings, April 6th
- Next f2f end of June (~12 weeks)
 - TD freeze for next f2f should be ~9 weeks
- compile simplified TD & new vocabularies into TD deliverable
- have a first draft of the simplified TD deliverable end of April
- decision needed to merge section 5 & 6? → seems to be ok to keep both sections. Perhaps there will be an extra section to explain the RDF-based TD model and derive other serialization formats from it