

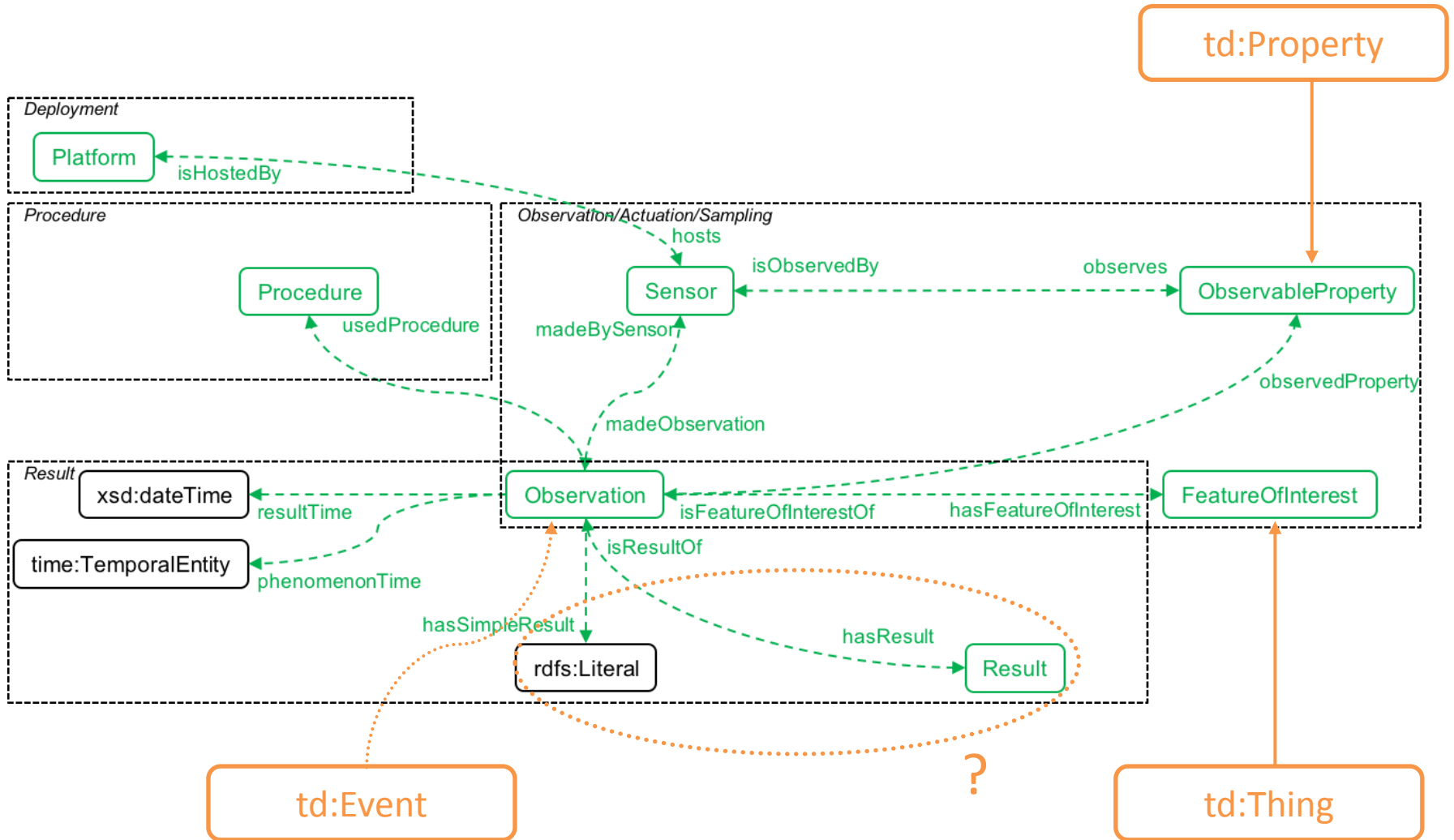
Thing Description & Links

F2F Meeting, Düsseldorf, 9-13 July 2017

TD Resource Model

- 3 Interaction patterns
 - Property (*temperature, switch state*)
 - Action (*switch on/off, start heater*)
 - Event (*high temperature, measurement occurred*)
- **Web links** with input/output data types
- RDF annotations of Things/Interactions

TD & SSN/SOSA



(among other alignments)

TD & SSN/SOSA

- SSN/SOSA
 - Property vs. Observation
 - Event
 - How to sort them chronologically?
 - Or Property with various links
- WoT
 - “rel” along with “href”?
 - With default? Currently “current” or “target”.
 - URI templates?

IANA Link Registry

alternate	appendix	bookmark	chapter	contents
copyright	current	describedby	edit	edit-media
enclosure	first	glossary	help	hub
index	last	latest-version	license	next
next-archive	payment	prev	predecessor-v.	previous
prev-archive	related	replies	section	self
service	start	stylesheet	subsection	successor-version
up	version-history	via	working-copy	working-copy-of

<https://tools.ietf.org/html/rfc5988#section-6.2>

TD Example

```
{
  "@type": "Thing",
  "base": [ "coap://www.example.com:5683/" ],
  "interaction": [
    {
      "@type": ["Property"],
      "writable": false,
      "link": [
        {
          "href": "temp/latest",
          "mediaType": "application/json"
        }
      ]
    },
    {
      "@type": ["Event"],
      "link": [
        { "href": "temp-observation" }
      ]
    }
  ]
}
```

TD Example

```
{
  "@type": "Thing",
  "base": [ "coap://www.example.com:5683/" ],
  "interaction": [
    {
      "@type": ["Property"],
      "writable": false,
      "link": [
        {
          "href": "temp/latest",
          „rel“: „td:latest“,
          "mediaType": "application/json"
        }
      ]
    },
    {
      „@type“: [„Property“],
      „link“: [
        {
          „href“: „temp/{timestamp}“,
          „rel“: „td:history“,
          "mediaType": "application/json"
        }
      ]
    },
    ...
  ]
}
```