



Thing Description 2.0

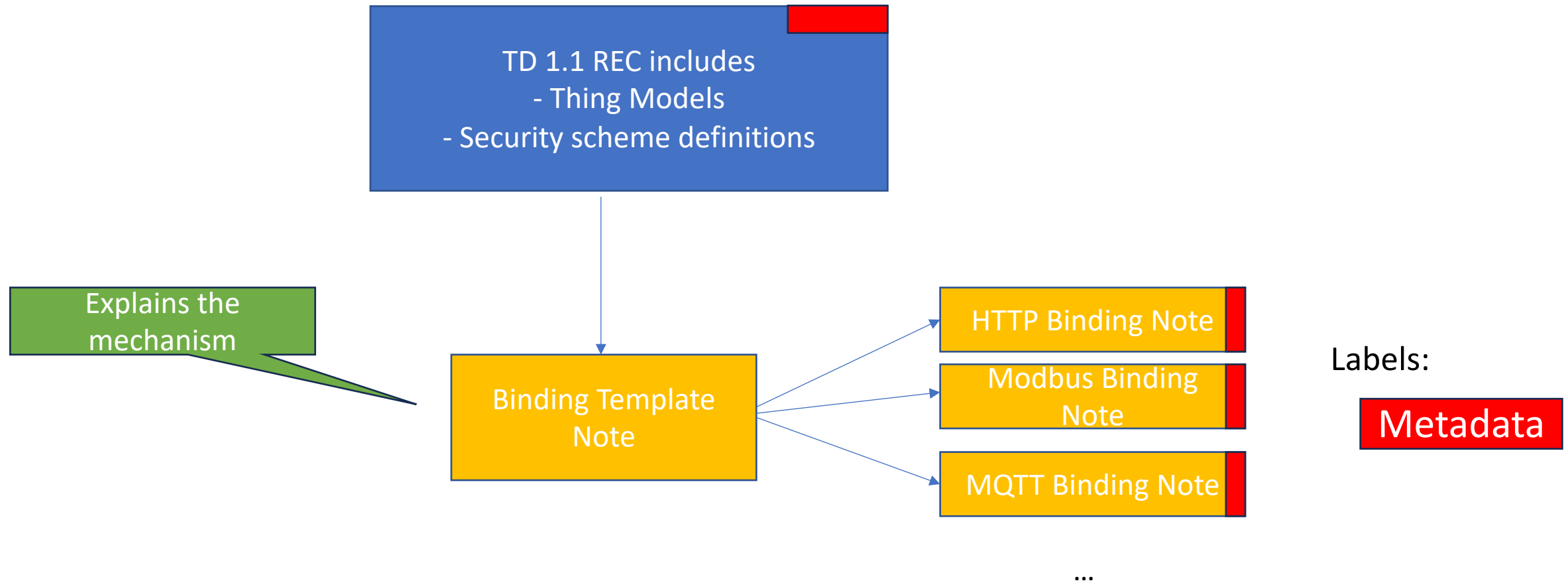
Sebastian Kaebisch

14 September 2023

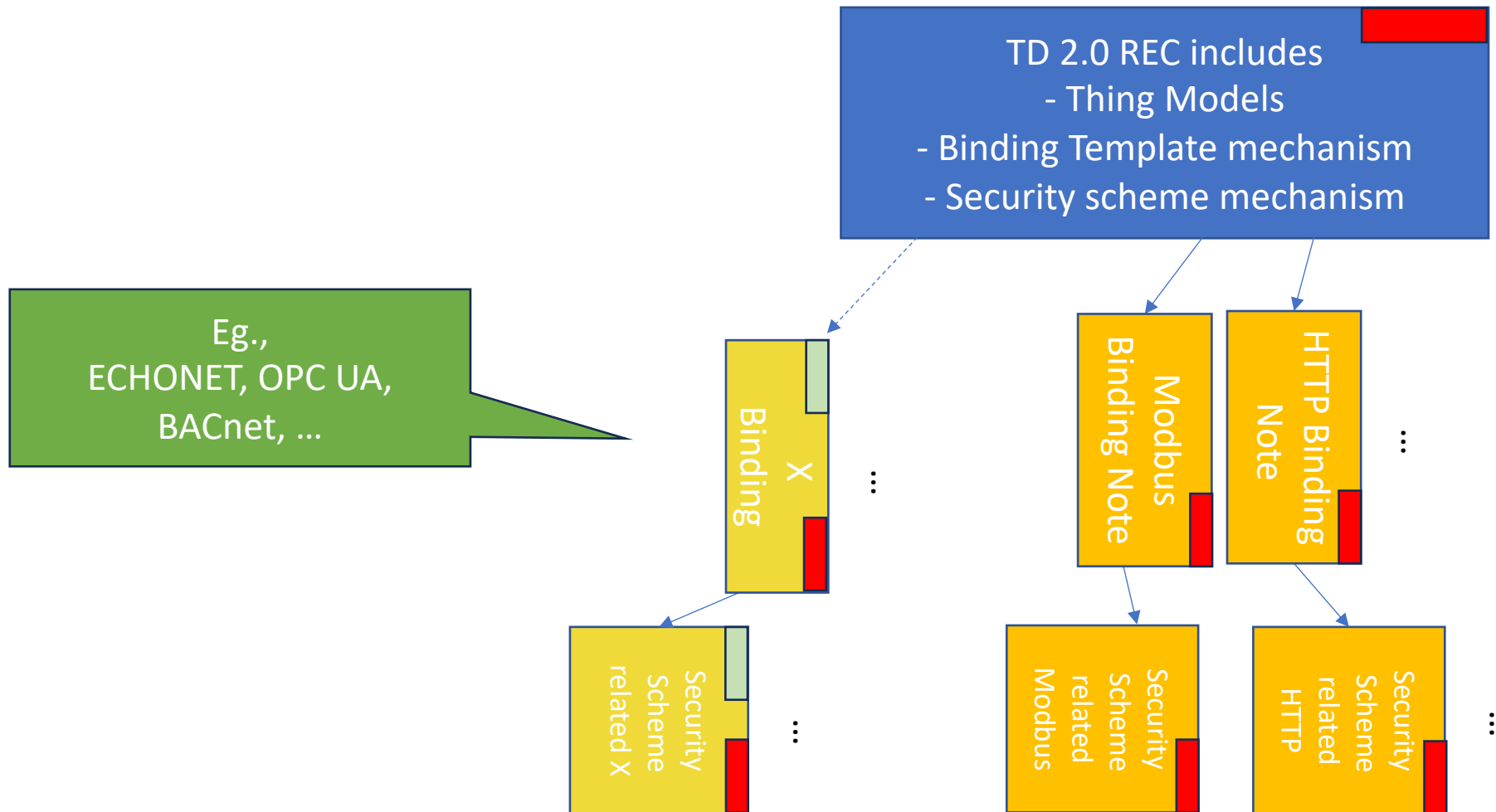
Agenda Overview

1. Summarizing planned activity: 20mins (Sebastian)
2. Bindings Registry: 20mins (Ege)
3. Manageable Actions (Asynchronous, queriable etc.): 5mins (Koster)
4. Q&A: 30mins (Sebastian)

TD Document Structure Today



Planned Restructuring



Labels:

Metadata

External SDO

Planned Topics for 2.0 Overview

- Full overview: <https://w3c.github.io/wot-charter-drafts/wot-wg-2023-details.html>

Initial / Common Connection Description

```

1  {
2    "@context": ["https://www.w3.org/2022/wot/td/v1.1"],
3    "id": "urn:uuid:0804d572-cce8-422a-bb7c-4412fcd56f06",
4    "base" : "https://mylamp.example.com",
5    "title": "MyLampThing",
6    "...": "...",
7    "properties": {
8      "status": {
9        "type": "string",
10       "forms": [
11         {
12           "href": "/status",
13           "contentType": "application/octet-stream"
14         }
15       ]
16     },
17   },
18   "actions": [
19     "toggle": {
20       "forms": [
21         {
22           "href": "/toggle",
23           "contentType": "application/octet-stream"
24         }
25       ]
26     },
27     "..."/>

```

- Currently there is no predefined place to provide init & common protocol specific descriptions, e.g.,
 - contentType used for each interaction
 - endian, baudrate, etc.

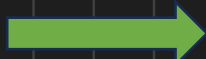
→ Provide a place (e.g., "endpoint") at TD top level that manages initial / common protocol setups

Manageable Actions

```

18  "actions": {
19    "fade-in": {
20      "...": "...",
21      "forms": [
22        {
23          "href": "/fadein",
24          "synchronous" : false,
25          "contentType": "application/json"
26        }
27      ]
28    },

```



- Currently it is unclear how to handle async actions, e.g.,
What is the status of the actions (still running, completed, interrupted, etc)?

→ Propose a mechanism how action status can be queried and be described in the TD

→ also see presentation from Michael Koster

Much More Topics

- Canonicalization, e.g., comparing TDs if they are equal or not
- Signing, e.g., can I trust the TD
- Timeseries, e.g., how to generalize timeseries concepts in TD
- TD Linting, e.g., how to specify Linting Rules within TDs
- Bindings & Registry, e.g., extend the set of official protocol supports
→ also see presentation from Ege Korkan