

TD 2.0 Common Definitions

TPAC 25 Plugfest Results
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What is going to happen?

If a TD has repeated stuff in the forms, provide an easier way to describe it.

The incubation-level spec is developing at

<https://github.com/w3c/wot-thing-description/tree/main/proposals/common-definitions>

Analysis

Summarized Problem

Currently, each form of an affordance has information on the endpoint, media type and other protocol related information. It is possible to use the base term for simplifying the endpoint but it has limitations such as:

1. If the media type is common across forms but is not `application/json`, it is repeated in each form.
2. If there are common protocol stack configurations such as different default verbs, baud rates, and endianness, they are repeated in each form
3. Multiple bases are not possible. Thus, each form repeats multiple bases. This is relevant when a TD has local and public IP addresses
4. For protocols that are based on an initial connection and then subsequent messages, the semantics are not clear. Thus, a Consumer can establish multiple connections instead of reusing the initial connection. See the [Example of the Message Flow section](#) at the end of the document.

You can read further at

<https://github.com/w3c/wot-thing-description/blob/main/proposals/common-definitions/README.md#requirements>

Plugfest Work

- Take some Plugfest TDs and convert them to the new format
 - Note the difference (size, less keys etc.)
 - Note problems
 - <https://github.com/w3c/wot-testing/pull/629>
- Write expansion code at Eclipse Thingweb
 - <https://github.com/eclipse-thingweb/td-tools/pull/70>
 - Understand the corner cases and the implementation effort (relevant for others)

Let's see examples