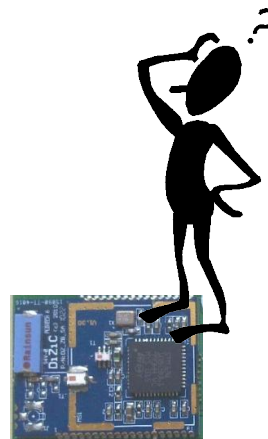


W3C WoT IG Thing Description Language

July 2015

Motivation

What kind of data do you serve?



Who are you?

How can I access the data/function?

What kind of function do you have?

Use Cases: engineering, discovery / identification, plug & play, monitoring, ...

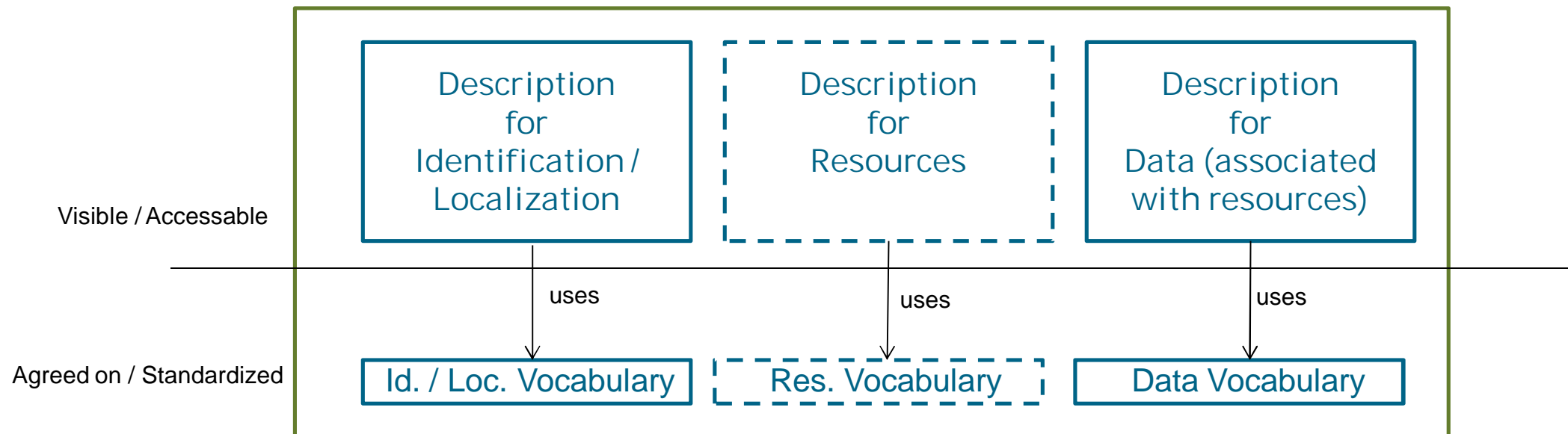
Thing Description (TD) Task Force Scopes

- Clarify and define what the TDL can be used for
- Clarify and define what aspects of a Thing can be described
- Agreement on the three building elements:
 - What is a suitable data model underlying TDL
 - How would a vocabulary used in thing descriptions look like
 - What is an appropriate syntax / serialization format of TDL which is feasible for the Things (may be synchronized with the AP task force)

Tech. Landscape

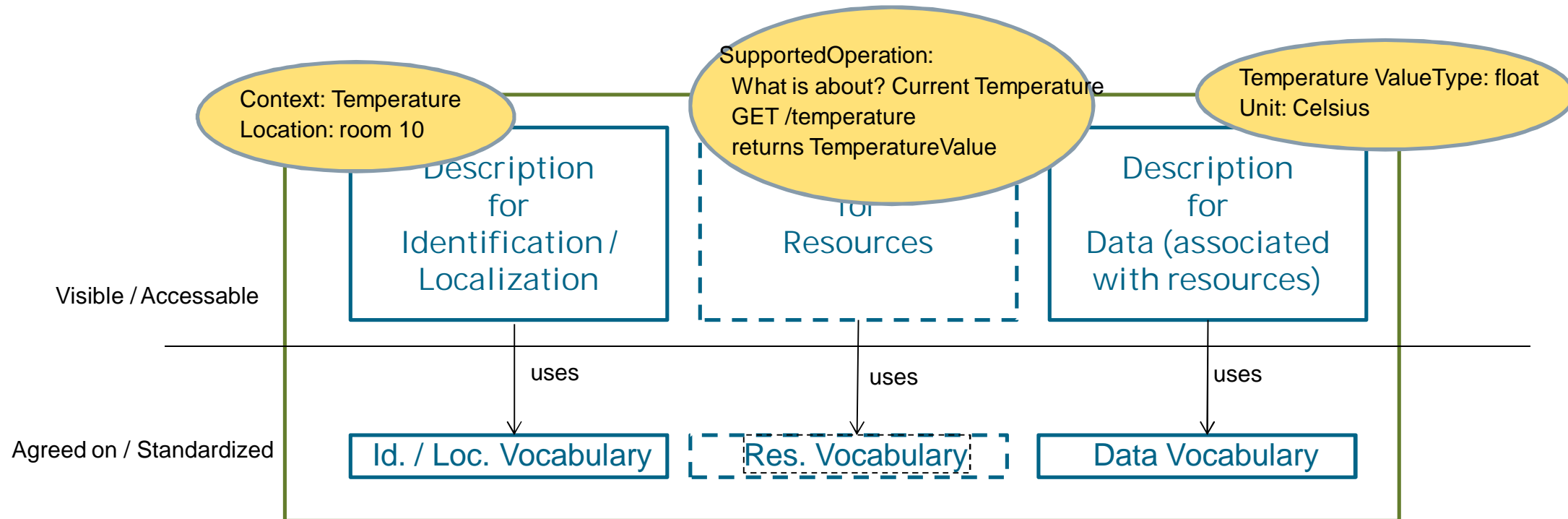
- IETF CoRE Link Format (access and context knowledge)
- RDF (data model)
- SSN (data model and vocabulary)
- JSON-LD (RDF serialization)
- SDWWG (data model and vocabulary)
- SenML (description of data)
- IPSO (access and context knowledge)
- RDF serialization with EXI (RDF serialization)
- Hydra (resource description)
- Functional Semantics for WoT Devices (resource description)

TD Model (Draft)



TD Model (Example)

I need the current temperature in Celsius in room 10.
How can I read the temperature value?



Missing & Next Steps

- Description about data
 - how to describe input parameters for resources?
 - return data (what is the structure? Are the needed data in there?)
- Apply TD model to use case contributions
 - Smart Home
 - Smart lifecare
- Join aspects from DI task force (today 😊)
- for F2F in California
 - technology mapping to the TD model
 - for breakouts:
 - refinement of the TD model
 - find a basic vocabulary for description for Identification / Localization
 - who is participating?