



# Manage dynamic resources

Daniel Peintner

October 21, 2020

# Manage dynamic resources - Issue #899

- See <https://github.com/w3c/wot-thing-description/issues/899>
- Raised the questions how to manage dynamically created resources
  - E.g., how to cancel or query the state of an action  
<https://github.com/w3c/wot-thing-description/issues/302>
  - Hypermedia-Control

→ Dynamic vs. Static TDs

# Outcome / conclusions

- Dynamic TDs
  - raises a bunch of security issues (i.e., hashing, signing, ...)
  - problematic w.r.t. to directories/caches/bandwidth
  - thing needs to host TD otherwise it would be static
  - more complexity (and resource power) on server side by creating and handling dynamic TDs
- Static TDs
  - cannot provide running actions per se (unless the thing provides a dedicated static resource such as runningActions)
  - complexity on client-side (clients need to construct the right href for running actions et cetera)
  - **Special Case:** "dynamic" response for invoke actions
- Next steps:
  - no *one-fits-all* solution
  - Future
    - CoRAL?
    - OpenAPI?
    - OPC-UA "program" (long running call)