IETF Hackathon
ASDF/T2TRG/WISHI

IETF 111 • July 19–23, 2021 • Online

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SDF Hackathon Plan

`draft-ietf-asdf-sdf` defines SDF, the Semantic Definition Format for describing **IoT devices**, their **data models**, and their **interaction affordances**

- Designed as a common modeling format
- to use between ecosystem-specific formats (YANG, WoT, DTDL, IPSO, …)

Objective:

- Bring together the various ongoing SDF converter projects
- Address loose ends in ingesting/processing SDF
- Come up with some CI modules that OneDM can use in their model adoption process

Issues:

- Too many programming languages/platforms
- Everybody is on vacation this week

SDF: What got done

- Improved shared understanding of how to process SDF
- Improvements in the individual converters and processes

- Rough prototypes of the CI modules that exploit this (github actions)

    - No longer always have to go to OneDM repo to test models

- Support roundtripping as a test strategy

- Interact with W3C WoT on dynamic "action objects" (vs. draft-ietf-ace-aif)

    - Ongoing, for WoT meeting next week

- Record the details learned, to reflect back to specification

What we learned

Actually, no *big* surprises

Need to make it more accessible to process SDF, need design patterns for shared libraries

- ingest SDF
- validation steps

Feedback to the WG

- more details about namespacing

New work to take to WG

- Need to make SDF design for dynamic "action objects"
  - need data models for more than just action input and output
  - define errors as part of the model

Wrap up

Old-timer Team members:

- Carsten Bormann
- Michael Koster

First-timers @ IETF/Hackathon:

- Cornelius Schulz-Trieglaff
- Jan Romann

People on vacation whose tools we used

- Ari Keränen
- Jana Kiesewalter

Other links:

- https://www.sdf-wot-converter.org
- http://www.sdf-yang-converter.org

Notes and contacts:

- (See links on T2TRG mailing list)