WISHI

(Work on IoT Semantic/Hypermedia Interoperability)

IETF 106
Nov. 16-17, 2019
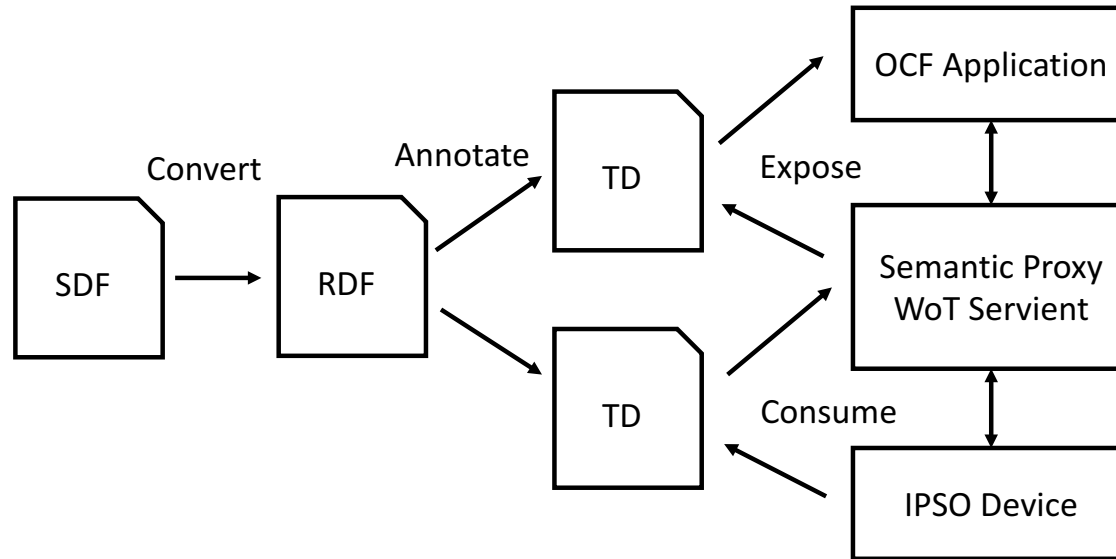Singapore

HACKATHON

<IETF 106 / Singapore>

Hackathon Plan

- Data Model convergence and automatic translation with OneDM

- Work together with W3C WoT
    - Integration with CoRE resource directories to support discovery

- YOUPI (YANG based conversion from binary to JSON/CBOR) enhancements

What got done

- One Data Model tools and concepts
  - Conversion from OneDM SDF to LwM2M/IPSO models
    - With improved IPSO to OneDM (from hackathon @ 105)
  - Enhanced OneDM data model linter
  - Data model CI for Github
  - https://github.com/EricssonResearch/ipso-odm
  - Good discussions on architecture, use of semantics, dynamic descriptions, convergence across SDOs, etc.
- YOUPI
  - Basic data encoding from JSON to binary
  - Now works in both directions!
- W3C Web of Things
  - First version of WoT Thing Description discovery using CoAP RD

Semantic Proxy - Schematic

What we learned (again)

- Handcrafted examples/models are prone to errors
  - Good CI tools helpful
  - Automated conversion very helpful

Wrap Up

Team members:

Carsten Bormann

Klaus Hartke

Christer Holmberg

Jaime Jiménez

Ari Keränen

Michael Koster (remotely)

Michael McCool

Ivaylo Petrov

Kunihiko Toumura

Niklas Widell

http://wishi.space/
https://github.com/t2trg/wishi/wiki/IETF-106-Hackathon