ASDF
(Unofficial) hallway meeting
2020-10-12

Note Well

- You will be recorded

- Be nice, and be professional

- The IPR guidelines of the IETF apply:
  see **http://ietf.org/ipr** for details.

Repo: https://github.com/ietf-wg-asdf/2020-10-12-hallway
Notes: https://codimd.ietf.org/notes-asdf-2020-10-12

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/(Privacy Policy)

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Agenda

- Introduction, admin, agenda bashing (10 min)

- Background and mini-tutorial (40 min)

  - Q&A about background

- Structuring work on SDF 1.1 (40 min)

  - Limitations of SDF 1.0

  - Approaches for addressing them

  - Prioritizing for SDF 1.1

What is ASDF?

- ASDF is the IETF Working Group formed to specify the Semantic Definition Format (SDF)

  - Follows on BoF with same name at IETF 108

- SDF was created by **One Data Model (OneDM) group** as the way to describe IoT device information models in a highly portable way to address semantic interoperability between ecosystems

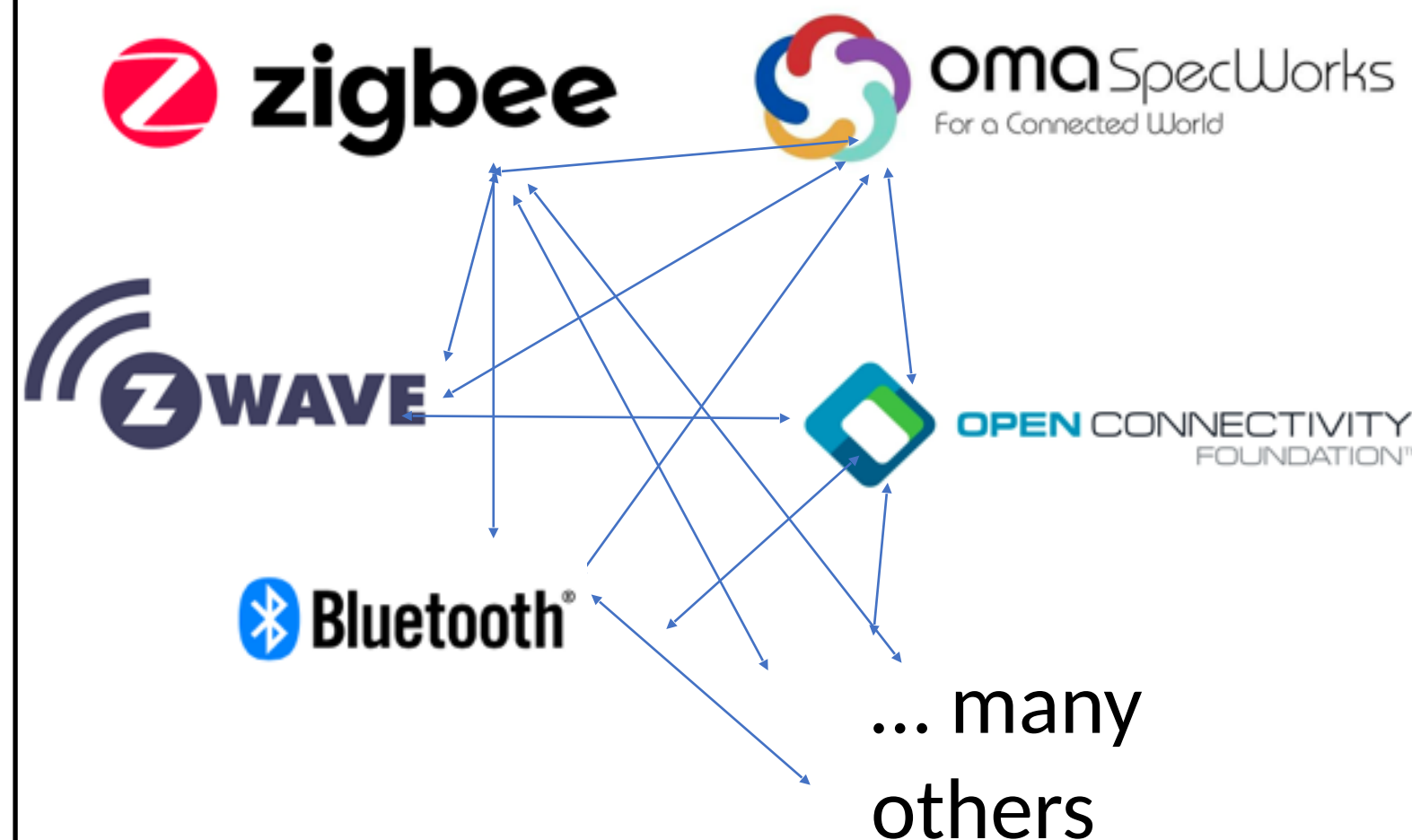 - OneDM's SDF 1.0 spec is initial input to SDF as https://datatracker.ietf.org/doc/draft-onedm-t2trg-sdf/

ASDF: where are we now?

- **Status:** ASDF has passed IESG review with no objections, final charter revision sent to AD … *so we should be chartered and up and running any day now …*

- **Chairs:** Michael Richardson and Niklas Widell

- **Plans:**

  - (Unofficial) hallway meeting - today - to get going

  - Virtual interim - in about two weeks time

  - IETF 109 Hackathon - Preparations for SDF 1.1

  - IETF 109 - 2hr meeting slot requested

One Data Model in a nutshell

The problem

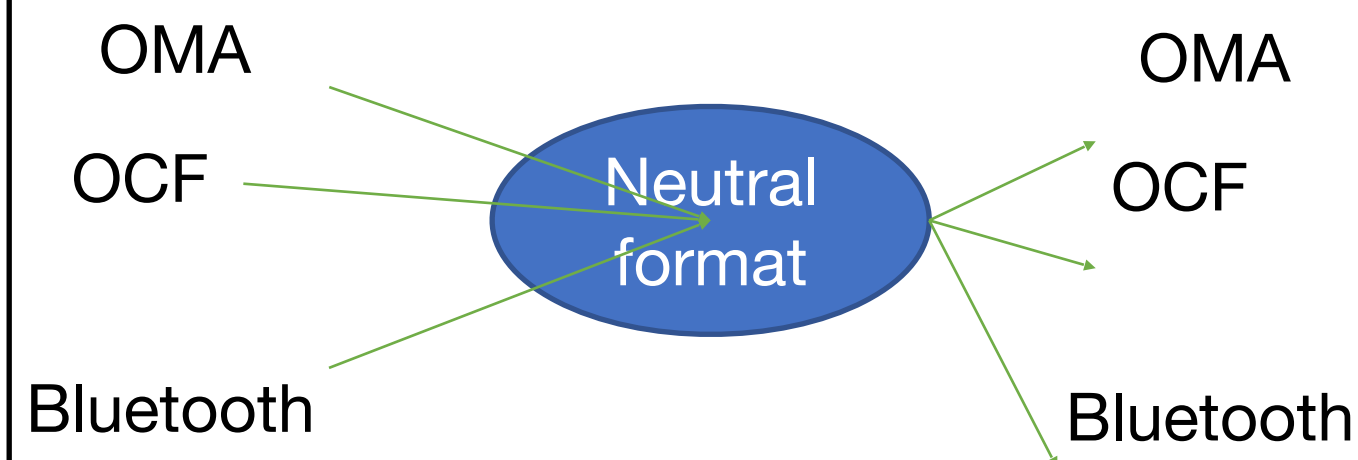Several standardised data models

... many

others

Lack of semantic interoperability across ecosystems ➜ high integration cost

Potential Solutions

❑ Everyone join my (or your) ecosystem ➜ *does not work*

✓ Facilitate translation between ecosystems via a neutral format

One Data Model

✓ Neutral format: Semantic Definition Format (SDF), now destined for IETF

✓ Create toolchains SDF ⇔ ecosystems

✓ Create set of adopted device models for wider re-use

✓ https://onedm.org/