

# **ASDF**

## **Interim 01**

### **2023-01-12**

Chairs: Michael Richardson, Niklas Widell

# Note Well (1)

- You will be recorded
- Be nice, and be professional - notification of IETF Code of Conduct
- The IPR guidelines of the IETF apply: see <http://ietf.org/ipr> for details.

**Repo:** <https://github.com/ietf-wg-asdf/asdf-working-group-notes>  
**Notes:** <https://notes.ietf.org/notes-ietf-interim-2023-asdf-01-asdf>

## Note well (2)

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)



# IETF Code Of Conduct Guidelines

RFC7154

1. Treat colleagues with respect
  2. Speak slowly and limit the use of slang
  3. Dispute ideas by using reasoned argument
  4. Use best engineering judgment
  5. Find the best solution for the whole Internet
  6. Contribute to the ongoing work of the group and the IETF
- Please keep these in mind both at the mic and on Jabber/Meetecho IM

# Agenda

1. Note Well. <https://www.ietf.org/about/note-well/>
2. Logistics for Meeting
  1. CodiMD for <https://notes.ietf.org/notes-ietf-interim-2023-asdf-01-asdf>
  2. Meetecho
  3. Roll call/Blue sheet covered by Meetecho
3. WG status update (Chairs - 5 min)
  1. Next steps
  2. Beyond SDF
  3. Meeting plans - F2F at 116 in Yokohama? Additional interims
4. Getting SDF ready for WGLC <https://datatracker.ietf.org/doc/draft-ietf-asdf-sdf/>
  1. Issue list processing
5. AoB

# Administrative

## Resources

- Meeting notes: <https://notes.ietf.org/notes-ietf-interim-2023-asdf-01-asdf>
- Meetecho: <https://meetings.conf.meetecho.com/interim/?short=34edddc6-ca69-46f4-94f2-89a1ba0a1d6d>
- All ASDF notes at:  
<https://github.com/ietf-wg-asdf/asdf-working-group-notes.git>

## WG procedures

- Decisions on mailing list: <https://www.ietf.org/mailman/listinfo/asdf>
- Work on Github: <https://github.com/ietf-wg-asdf>
  - Use Issue tracker for issues (new features and fixes)

# Status update

- **Status:** ASDF WG was chartered in October 2020
- **Chairs:** Michael Richardson and Niklas Widell
- **Progress so far:**
  - Three IETFs with Hackathons, continuing work on converters (I-D for YANG, I-D mention of WoT, ...)
  - Seven virtual interims - but we lost some steam in 2022
  - SDF 1.1 with ~~Implementation draft status~~ **just resubmitted (-13)**
    - Need to get to finish line
  - Number of additional documents created (next page)
- **Meeting plans:**
  - Should we meet at 116?
  - **Plan for next interim late February?**

# Documents

Name	Title	Date of latest revision	Status in the IETF process
<b>draft-ietf-asdf-sdf</b>	Semantic Definition Format (SDF) for Data and Interactions of Things	2022-06-30	I-D Exists
<b>draft-bormann-asdf-sdf-compact</b>	Semantic Definition Format (SDF) for Data and Interactions of Things: Compact Notation	2022-10-24	I-D Exists
<b>draft-kiesewalter-asdf-yang-sdf</b>	Mapping between YANG and SDF	2021-11-07	Expired
<b>draft-bormann-asdf-sdf-mapping</b>	Semantic Definition Format (SDF): Mapping files	2022-10-24	I-D Exists
<b>draft-laari-asdf-relations</b>	Extended relation information for Semantic Definition Format (SDF)	2022-12-12	I-D Exists
<b>draft-bormann-asdf-sdftype-link</b>	An sdfType for Links	2022-12-01	I-D Exists
<b><u>wiki page</u></b>	Model design guidelines	2023-01-10	



# Getting SDF ready for WGLC

- Used the time since –12 for OneDM completeness check
  - Today's draft –13 is a roll-up of one minor PR merged
- Finish remaining issues
- Do a readiness check
- Run WGLC
- Identify Document Shepherd

# Open PRs

- (None as of 14:35Z)

# Open Issues

- 17 Issues of varying quality and urgency
- Next slides structure them into groups

# Issue Group: info block

- **#29 Define "version" field in info block**
- (#26 Rules for combining information from info blocks → 1.next)

# Issue Group: sdfType

- **#82 IANA registry for sdfTypes**
  - mostly writing needed (→ CB)

# Issue Group: Names

quality names, given names, namespaces, ...

- #83 CDDL for extension qualities with namespace (colons)
  - (And actually explain the special meaning of colons)
- #85 IANA registry for extension quality namespaces
- #67 Further define syntax of given names (named<...>) and quality names
  - → @cabo

# Issue Group: Other Technical

Discuss, write:

- #87 Disallow using both sdfChoice and enum at the same time?
- #75 SDF features in SDF files (→ CB)

# Issue Group: $\Leftrightarrow$ Other documents

Separate document, just prepare ground

- #84 sdfType for links (or core-links) SDF evolution
  - See Drafts on relations, sdfType link
- #76 Protocol Bindings vs. Mapping Files ( $\rightarrow$  CB)
  - Draft on mapping files



# Issue Group: Blocked/Chores

- #34 Split up jsonschema CDDL definition (co-occurrence)
  - Still waiting for tool update...

→ Can do during WGLC:

- #33 Add automated checks  
(task: Something that just needs to be done; chore)
- #72 Test cases for the JSO/CDDL schema  
(task: Something that just needs to be done; chore)

# Issue Group: Editorial

Editorial task:

- #63 Usage of top-level affordances and sdfData (editorial, → CB)
- #54 Do the line-breaking task Something that just needs to be done; chore

Nice to have:

- #60 Examples for SDFpointers to input/output parameters
  - task: Something that just needs to be done; chore (→ MJK)
- (#11 When do we use "sdfXxx", when do we use "xxx"? → 1.next)

# Issue Group: Not yet written up

- \_\_\_\_\_ (please fill in the blank)

# Readiness check

- Check whether infrastructure is complete so additional drafts fit in
  - Mapping, Protocol Bindings, etc.
  - Namespaces for quality names, given names
  - Link-related drafts (relations, sdfType “link”)
- Other checks (test cases, #33, #72)
- Need to do a CDR (critical design review)
  - Before or as part of WGLC

# Strategy for 1st SDF RFC

- Minimize further additions
  - Focus on finishing what we have
- Do check need and readiness
  - If in doubt, leave it for further extension
- Make sure extension points for this are available