draft-ietf-cbor-cddl-control-02

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- New control operators for CDDL: .cat/.plus, .abnf/.abnfb, .feature
- Was waiting for implementation experience with .abnf/.abnfb
 - ABNF is hard thoughts about splitting it off
 - ABNF finally implemented in early March, no more waiting needed
 - One new observation: ABNF is indentation-sensitive
- Proposal: go ahead, but add . det for "dedenting cat" (PR #6)
 - → .plus/.cat/.det, .abnf/.abnfb, .feature

Proposed next steps

- (Status: Implemented in CDDL tool 0.8.21)
- → Submitted trial balloon –03 with . det
- ? Get pre-WGLC reviews
- → WGLC

draft-ietf-cbor-packed-02

draft-ietf-cbor-packed-02

- draft-ietf-cbor-packed-02:
 - Add Tag allocations for suffix packing
 - Add WoT example
- Missing: more details for table setup (and its extensibility)
- Issue: add circumfix packing? (compare draft-bormann-lpwan-cbor-template-02)
- Next step: Get the implementation out, further implementation work
- Heads-up for next thing: Streaming packing? (Can be added to this later.)

draft-bormann-cbor-time-tag-04

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- Tag 1001 has been around for a while and is in active use
- Add timescale key (UTC ~ NTP, TAI ~ GPS ~ PTP)
- Add clock quality (~ PTP [RFC8575], uncertainty [GUM] and guarantees [RFC3161])
- Add duration (delta, 1002), period (interval, 1003)
- Next steps:
 - ? Could live on as individual for more time (registrations have been made)
 - ? Could become WG document with a view of completion in 2021

draft-bormann-cbor-notable-tags-03

draft-bormann-cbor-notable-tags-03

- Intention: hitchhikers' guide for the CBOR tag landscape
- Collect descriptive information that explains
 - Why sometimes there are multiple tags for one area of application, and
 - What distinguishes them
 - How to select between them
- Slow progress → any day now [please send PRs!]
- Plan is to snapshot and publish after some time (2022?)
- Also defines some tags (e.g., 63 for encoded cbor seq, 65535 etc. for invalid tags)

draft-bormann-cbor-cddl-freezer-05

draft-bormann-cbor-cddl-freezer-05

- Essentially unchanged for a year now
 - last change: extracted computed literals and abnf → -control
- More controls (less urgent needs): .pcre, endianness, bitfields
- Alternative representations: CDDL in JSON (interface between tools!)
- Language extensions:
 - Module superstructure (export/import), namespacing
 - Co-occurrence constraints (hard to do right; piggyback on what?)
 - Literal syntaxes (regexes, literals for tags) (waiting for strong use cases)

draft-bormann-cbor-cddl-freezer-05

- Essentially unchanged for a year now
 - last change: extracted computed literals and abnf → -control
- More controls (less urgent needs): .pcre, endianness, bitfields
- Alternative representations: CDDL in JSON (interface between tools!)
 → could extract for informational
- Language extensions:
 - Module superstructure (export/import), namespacing → highest perceived need
 - Co-occurrence constraints (hard to do right; piggyback on what?)
 - Literal syntaxes (regexes, literals for tags) (waiting for strong use cases)

ai=28 (128-bit integers/floats)?

ai=28

- Extension beyond 64-bit arguments (int/float, not meaningful for the rest)
- Can use tags to handle some of this now:
 - Tag 2/3 for uint128, nint128 (use one more byte, but can compact leading 0)
 - Tag 5 can handle float128 and more, but only with icky conversion work
 - Tag 83 is for arrays of float128, but can send one of them as well
 - Should we define specific tags (float128, float256???)?
- Or should we open Pandora's ai=28 box?