

CBOR@

IETF 117

Time-tag

— draft-ietf-cbor-time-tag

Passed short final WG last call

Interface to SEDATE is stable, can decouple now

Needs writeup, Shepherd: Barry Leiba

(One small editorial still discussed, can do in IETF call)

→ ship it RSN

CBOR-Packed

— draft-ietf-cbor-packed

Passed WG last call in 2022

- Reference tags pretty stable

Implementation and use experience → table setup updates in **-09**:

- two table setup tags (113 = common, 1113 = split setup)
- discuss unpopulated table entries during unpacking.

Use case draft-lenders-dns-cbor; other implementation experience?

— draft-amsuess-cbor-packed-by-reference

CBOR-associated languages

- **CBOR** = representation and interchange format (binary, concise, efficient)
 - low-level visualization in text as **cbor-pretty** (hex with comments)

Two associated textual languages:

- **EDN** (cbor-diag) → examples, diagnostics
 - Text form for single **instance** (item/sequence), convert back and forth (**cbor.me**)
 - Derived from **JSON**, made more useful for humans, added binary, tags, ...
- **CDDL** → specification, validation
 - Describe specific data **model** (grammar)
 - Inspired by **ABNF**, can describe JSON, CBOR, CSV*

Diagnostic Notation (EDN)

— draft-ietf-cbor-edn-literals

Originally: Define EDN literals

–00: WG adopted (2023-06-14)

–01: added **ABNF** for EDN (2023-07-10)

–02: added informative appendix on EDN vs. **CDDL**
(2023-07-23)

other work?

Text needs review

ABNF needs implementation

→ get a few reviews next

CDDL 1.1 + 2 mid-2023 pack (standards track)

- [draft-ietf-cbor-update-8610-grammar](#): 2023-06-17
Empty files (enabling CDDL 2), non-literal tags, errata fixes
- [draft-ietf-cbor-cddl-more-control](#): 2023-06-14
Additional control operators, another iteration like RFC 9165
- [draft-ietf-cbor-cddl-modules](#): 2023-06-17
(implemented in `cddlc` for `import/include`)

All three implemented in `cddlc`

Need `application` in spec work, `review` and more `implementation`

→ get a few reviews next

New documents on deterministic encoding

- CBOR deterministic encoding defined by RFC 8949
[draft-bormann-cbor-det: 2023-07-23](#)
Informational document ("backgrounder")
- "dCBOR" numeric reduction without restatements:
[draft-bormann-cbor-dcbor: 2023-07-23](#)
dCBOR generic data model w/numeric types collapsed,
also request deterministic representation choice

Are these useful?

→ Get initial reviews

Other active work

Technical:

- [draft-lenders-dns-cbor](#) ("Customer" for CBOR-packed)
- [draft-bormann-cbor-cddl-csv](#) (CDDL for CSV)
- [draft-bormann-cbor-rfc-cddl-models](#): 2023-02-25

Process:

- [draft-bormann-cbor-draft-numbers](#): 2023-03-13