

CBOR @ 2023-10-18

time-tag • edn-literals

draft-ietf-cbor-time-tag

-09 Submitted to IESG 2023-08-23

-10 submitted 2023-10-07 based on AD review (PR #19)

IETF Last Call to end 2023-10-21

Telechat date 2023-10-26

Reviews by:

Thomas Fossati (artart) → <https://github.com/cbor-wg/time-tag/pull/20>

Qin Wu (iotdir) → <https://github.com/cbor-wg/time-tag/pull/21>

([secdir](#), [genart](#), [opsdir](#) pending)

To do: -11 before or after 2023-10-26 telechat

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*

draft-ietf-cbor-edn-literals

Originally: Define EDN literals

Now really: EDN maintenance and extensions

EDN Plan from 2023-10-04 interim

- address #11 (encoding indicators) and #12 (IANA cons) "this week"
→ -05
- WGLC (with update-8610-grammar, see below)

What actually happened

- Tons of useful feedback → filling in more gaps
- -05 submitted yesterday
- **now** can do WGLC (with update-8610-grammar)

–05: changes beyond #11 (PR #15, #18) and #12 (PR #14)

- PR #16: Tag **999**: preserve EDN application-oriented literal when not understood: `dt '1969-07-21T02:56:16Z'`
→ `999(["dt", "1969-07-21T02:56:16Z"])`
- PR #21, #22: Add **ellipsis** to ABNF for elisions (→ Tag **888**)
`h'4711...0815', ["cabo@tzi.org", /sign key/...]`
→ `888([h'4711', 888(null), h'0815']), ["cabo@tzi.org", 888(null)]`
- PR #22: Support RFC 8610 Appendix G.4 (**chunked** strings)
- PR #24: **ip**" (RFC 9164) and lower/UPPER case:
`ip'192.0.2.42' → h'c000022a'`, `IP'192.0.2.42' → 52(h'c000022a')`,
`IP'192.0.2.0/24' → 52([24,h'c00002'])`,