

CBOR

10 documents in 52 minutes

Recently completed

- RFC9090: was draft-ietf-cbor-tags-oid
- draft-ietf-cbor-cddl-control:
 - Completed WGLC
 - made `.det` both-handed (tool updated)
 - Carsten: Process CA's remaining comments → -04
 - Christian: Shepherd report, submit [~ next week]

WGLC ends today (MCR)

- [draft-ietf-cbor-file-magic](#):
 - WGLC will need **more feedback** to complete
 - 55800 registered
 - need to go forward with content-format tags registration
- [draft-ietf-cbor-network-addresses](#):
 - WGLC ending here, shepherd writeup ready
 - deflect "zone-id" comment (RFC 4007 [CAFE:BEEF::1]%en0)
 - would make it too easy to allow zone by mistake (YANG!)
 - zone id, zone name, zone number? + fluid 6847bis...
 - this instead belongs in draft-ietf-core-href

Recently adopted

- `draft-ietf-cbor-time-tag`
 - Just adopted recently
 - General direction:
Do we want to add more or ship as a v1?
 - no rush: tags registered, in use in implementations
 - Next steps either way: Reviews needed.

Packed

Needs more independent implementation work!

Main issue: [table building](#)

Also: are the prefix/suffix/shared modes all we need?

(E.g., compare Kris Zyp's [Records](#),
[draft-bormann-lpwan-cbor-template](#))

Next steps CBOR-packed use cases

Plan: use the implementations to try out CBOR-packed on various use cases

On the bench: COSE C509 certificates (from John Mattsson)

(Unfortunately, found a bug in cbor-packed gem.)

Also: Try use cases with nested dictionaries

Document split?

We could go forward with the referencing tags (share, prefix, suffix)

- Without a "basic" table setup
- With a simple basic table setup (~ current document)

Or we could wait until we understand the whole picture of

- static dictionaries combining with in-instance ones
- combining CBOR out of separate packed instances

draft-bormann-cbor-notable-tags

Status: Individual, skeleton of a draft

- Background: Tags registry is an unsorted bucket
- NT to serve as an overview over important tags
- Can be more opinionated than registry?
 - WG opinions?
- Might help to "clean up" registry
 - No "recommended" columns etc. needed?

Freezer (CDDL evolution)

Most CDDL work since 8610 was done in control operators.

When do we touch the language itself again?

More control operators?

⊖ .pcre, .es2018re; iregexp?

⊖ .bits-bigendian, .bitfield, ...

→ Maybe later...
(Can always add when needed)

Beyond control operators?

Ⓢ Cuts

⊖ Literal syntax (including regexp literals)

 Clarifications

Ⓢ More co-occurrence constraints

 namespaces

 cross-universe references

Some are rather independent of CDDL itself:

 alternative representations

→ Work on these on independent timelines

How might name spaces look like (strawman syntax)

RFC8610.int ↔ int (OK, that **is** already being imported)

RFC9090.oid ↔ oid

```
;  
# export oid, roid, pen as RFC9090  
oid = #6.111(bstr)  
roid = #6.110(bstr)  
pen = #6.112(bstr)
```

```
;  
unadorned, just import?  
a = [RFC9090.oid]
```

```
;  
# import oid from RFC9090  
a = [oid]
```

Add retroactive exporting to RFCs

Existing RFCs with CDDL in it:

presume an export `...all...` as `RFCnnnn`

(Possibly also per-section exports `RFC8610.D`?)

Make those exports available in a focal space

New specs (including RFCs) can "include" from that

(And maybe "export" in a more considered way?)

Operations

"export":

(1) prefix:
add a namespace name
to "local" rulenames:

oid → RFC9090.oid

(2) make that namespace
available to other specs

"import":

(1) include (prefixed)
definitions from a source
(2a) use as is: RFC9090.oid
(2b) unprefix → oid

prelude processing:
include+unprefix from
Appendix D of RFC8610!

Decisions, Decisions:

How to find the document that exports a namespace
(IANA? Use by other SDOs? Internal use in an org?
How to transition between these states?)

Multiple documents exporting into one namespace
(**Immutable** RFC9090 namespace vs. "OID"-namespace?
Who manages **mutable** namespaces?)

Updates, revisions, versions, semver (oops)
;# insert OID ~> 2.2 --[twiddle-wakka]

Map-like data

Status: [draft-bormann-cbor-cddl-map-like-data-01](#)

Waiting for further analysis from Emile Cornier.

But could adopt if we like the general direction.

- Map-like data are really lists/sets of pairs →
Should we also look at lists/sets in general?

<https://github.com/ecorm/cbor-map-like/blob/with-lists/README.md>

Records

<https://github.com/kriszyp/cbor-records> (not an I-D)

Two elements, hard to separate in discussion:

- Semantic Identification of tuple as record data
- Compression aspect (~ cbor-packed)

The specific proposal relies on ordering — may not be available to the application

<https://www.rfc-editor.org/rfc/rfc8949.html#section-3.4-10>

Can/should this be done in the CBOR-packed framework?