

# Per-protocol tag for CBOR

On storing CBOR encoded items on stable storage

[draft-richardson-cbor-file-magic-01](#)

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# Motivation

- Observed CBOR encoding of “certificates”, private keys, etc.
  - PKIX already has poor extension of “.pem”, which could be mostly anything at all. Wish not to repeat.
- CBOR objects get stored on disk, want a way to identify them which is very very easily removed prior to transmission.
  - Content which is part of constrained device firmware, will still get stored on build system/source code.

# Motivation (2)

- Author converted bespoke private encoding to CBOR
  - To eliminate need for cross-language binding for IPC
- Dissatisfied with:

```
%file OUTPUT/ikev2client.record.x86_64
OUTPUT/ikev2client.record.x86_64: Concise Binary Object Representation
(CBOR) container (array) (tagged)
```

CBOR tag

# Proposed solution

55799 (

1330664270 (

h '424F52'

)

)

Per-protocol  
Allocated Tag  
(under  
First-Come  
First Served policy)

'BOR'

From file(1) README:

“Initial match is preferably at least 32 bits long, and is a unique match”

# Conclusion

```
%file OUTPUT/ikev2client.record.x86_64
```

```
OUTPUT/ikev2client.record.x86_64:  
Openswan WHACK file (CBOR encoded)
```

Simple proposed BCP

Adopt and publish