Per-protocol tag for CBOR

On storing CBOR encoded items on stable storage draft-richardson-cbor-file-magic-01 Michael Richardson Michael Richardson <mcr@sandelman.ca>

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
- Use CBOR Sequence, can be easily removed before transmitting
- Dissastisfied with:

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

CBOR tag

(under First-Come

First Served policy)

Proposed solution

```
55799(
    1330664270 (
            h'424F52'
   Per-protocol
                   'BOR'
  Allocated Tag
```

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
```