CBOR tags for IPv4 and IPv6 addresses and prefixes

draft-richardson-cbor-network-addresses-00
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Background

- Tag 260 and 261 exist.
- 260: IPv4 (if 4-bytes), IPv6 (if 16-bytes), Ethernet (if 6-bytes).
  - What about 8-byte Ethernet?
  - Forced to send 16 bytes, when many might be zeros.
- 261: seems to apply to maps, but prefixes in groups can be repeated, while keys should not be.
  - Also would be nice to know prefix length first.
  - Too complicated, not well enough documented
Proposed IPv6 tag

IPv6 Address

```
TBD1(
    h'20010db81234abcd0000000000c0ffee',
)
```

SUBNET

```
TBD1(
    [ 64,
        h'20010db81234',
    ]
)
```
Proposed IPv4 tag

IPv4 Address

TBD2( h'\text{C0000201}' )

SUBNET

TBD2( [ 24, h'\text{C00002}' ] )
Conclusion

Simple proposed STD
needs a document to get 1+1 tag
Could be merged into “notable tags”, if WG agrees
to do early allocation of tags.