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'20010db81234abcd
  0000000000c0ffee'
)
```

SUBNET

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

Proposed IPv4 tag

IPv4 Address   SUBNET

```
TBD2(                    TBD2(

   h'C0000201'              [ 24,

)                             h'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.