CBOR and/or JSON

Format for Authorizatrion Server communication and token formats.

Current draft

- " COSE_Key or JWK"
- ...but all examples in in CBOR
- Missing a lof of defintions.
- Question to WG: What alternative is best?

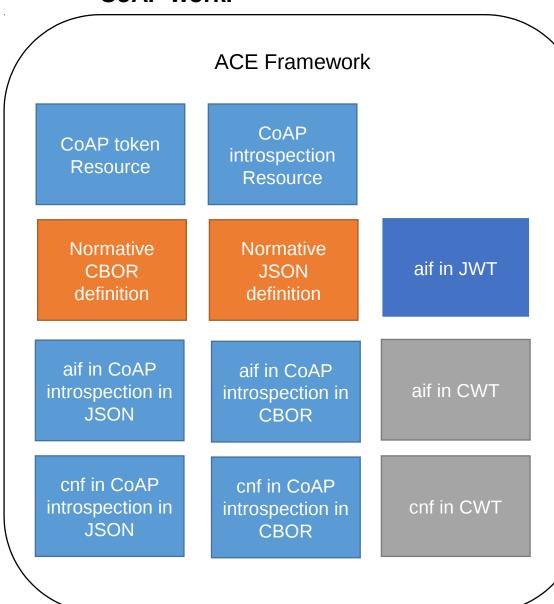
The alternatives going forward

- Defines components and in what spec they should be standalized.
- Components needed:
 - CoAP resources needed on the AS (token and introspection)
 - Normative sections for CBOR and/or JSON.
 - Extensions to JWT and CWT for aif and cnf.
 - Extensions to introspection for aif and cnf.
 - Extensions to HTTP implementations to carry ACE information like csp.

The alternatives and the implications.

- Alternative 1: CBOR and JSON and all components to make CoAP work.
- Alternative 2: CBOR only and extend later on with JSON.
- Alternative 3: JSON only and extend in parallell with CBOR.
- Alternative 4: CBOR and JSON and support for both CoAP and HTTP.

Alternative 1: CBOR and JSON and all components to make CoAP work.



Future draft for constrained devices

aif in HTTP introspection

Future draft for unconstrained C talking to constrained RS

csp in HTTP token response

Future introspection extension

cnf in HTTP introspection

draft-ietf-oauth-proof-ofpossession (editors que)

cnf in JWT

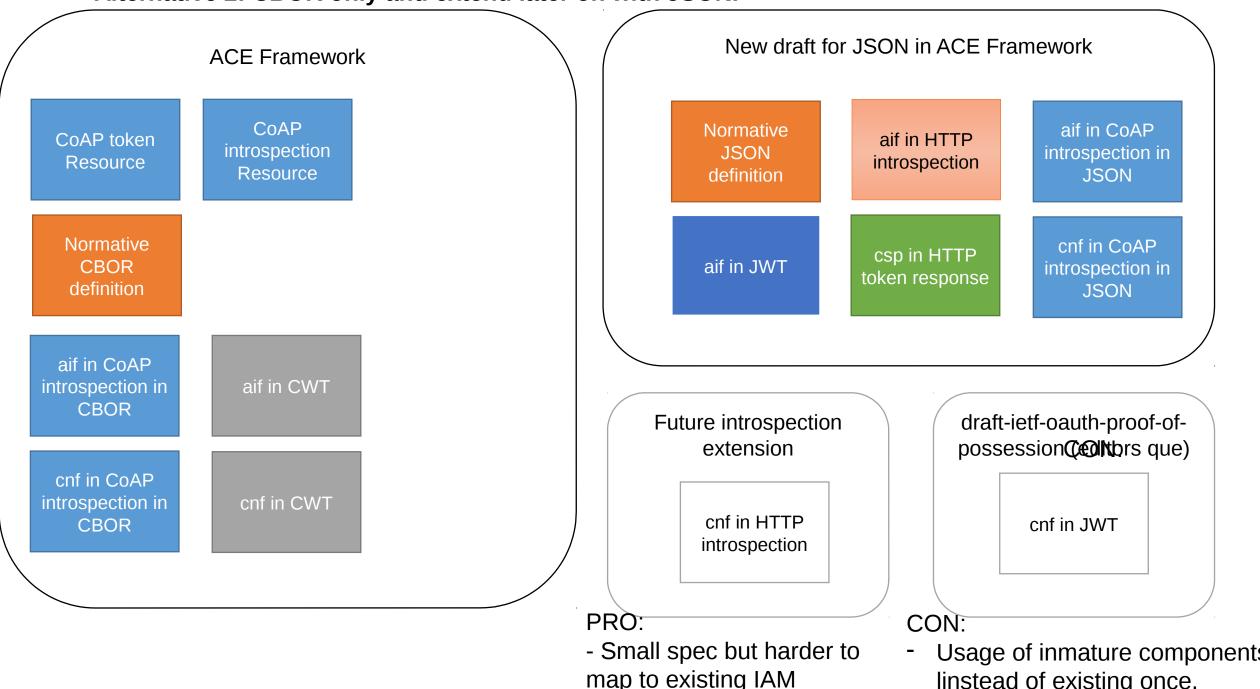
PRO:

 Matches industris current usage of both JSON and CBOR

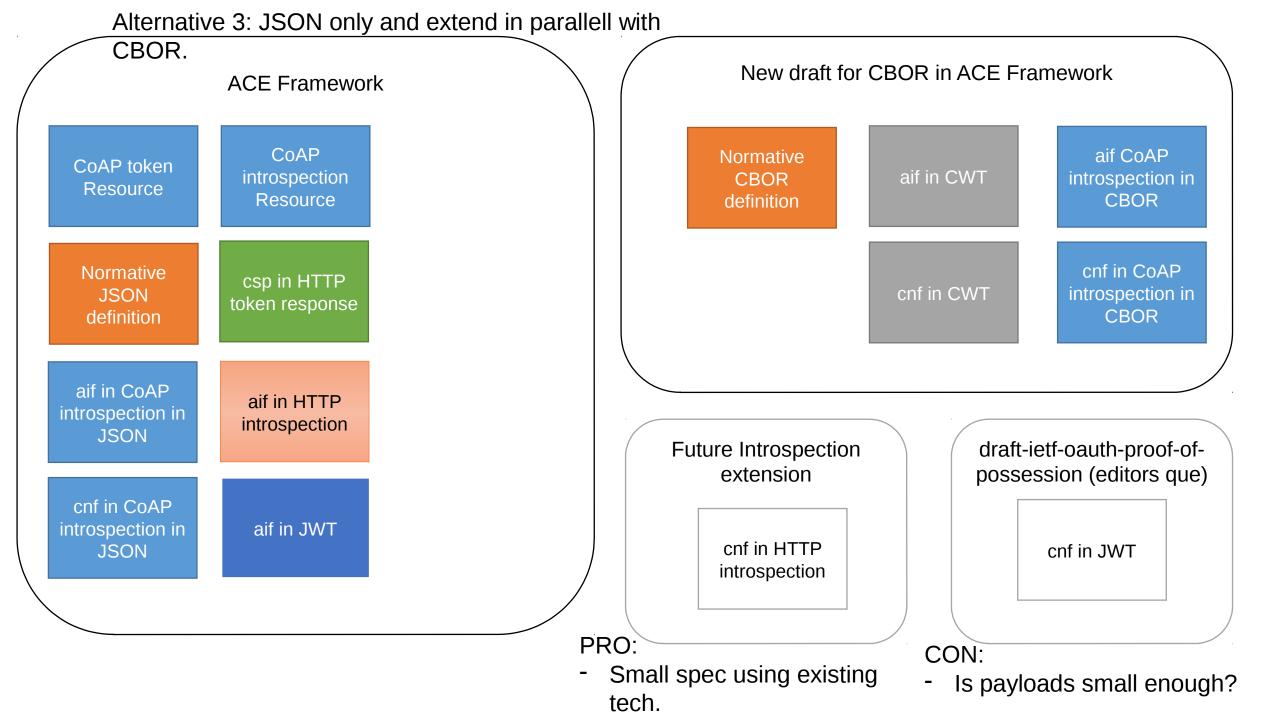
CON:

- A lot to extend and specify.
- HTTP based ACE drafts are small and very detailed.

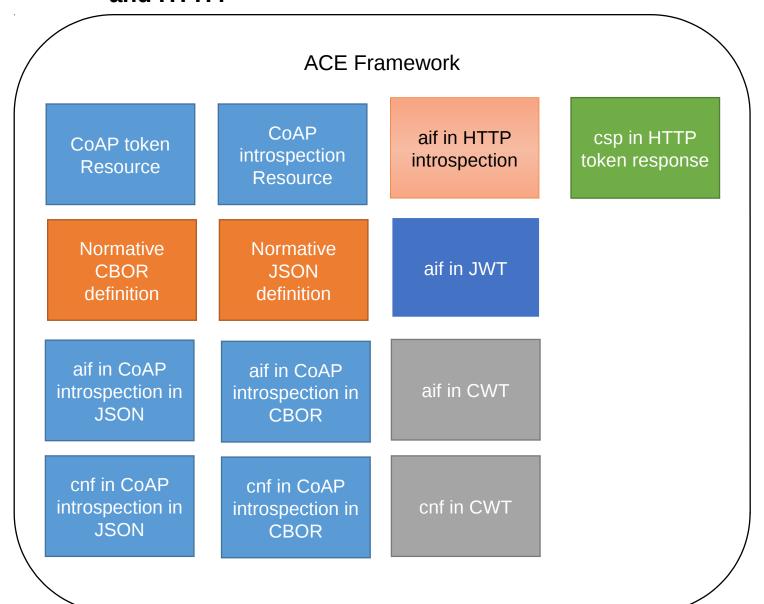
Alternative 2: CBOR only and extend later on with JSON.

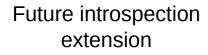


linstead of existing once.



Alternative 4: CBOR and JSON and support for both CoAP and HTTP.





cnf in HTTP introspection

draft-ietf-oauth-proof-ofpossession (editors que)

cnf in JWT

PRO:

- Everything in one spec.

CON:

Potential interop problems.

Question to WG: What alternative is best?

- Alternative 1: CBOR and JSON and all components to make CoAP work.
- Alternative 2: CBOR only and extend later on with JSON.
- Alternative 3: JSON only and extend in parallell with CBOR.
- Alternative 4: CBOR and JSON and support for both CoAP and HTTP.