Diagnostic Notation Next Steps?

Background: CoRAL

Constrained RESTful Application Language (CoRAL): Hypermedia format

- links to resources, with type information
- forms, to specify action input on resources
- simple resource metadata

Replacing Links-JSON/-CBOR (a cleaned-up link-format) Originated in T2TRG, now in CoRE WG

Coral Representation Formats

- primary: CBOR-based
 - concise, for constrained devices
- bespoke text-based
 - for whiteboards and RFCs
- (1) Do we need a JSON version? (Not on agenda...)
- (2) Can we get by with CBOR diagnostic notation?

CBOR diagnostic notation is tedious for CoRAL

Much of the CoRAL content is CRIs Constrained Resource Identifiers: parsed URIs

Application-specific extensions?

Potential approach: embrace application-specific extensions of diagnostic notation.

cri'coap://198.51.100.1:61616/.well-known/core'

cri'/.well-known/core?rt=temperature-c'

Syntax is patterned after h'...', b64'...', ...

Application defines the word before the first quote. Registry?

Other CoRAL considerations

CBOR-packed vs. CURIEs in CRI

— Easy to do prefix: coaps://coap.me → [-2, ["coap", "me"]] Usage: coaps://coap.me/foo/bar → `225([["foo","bar"]])

— Harder to do prefix:

```
coaps://coap.me/foo/\rightarrow [-2, ["coap", "me"], ["foo"]] coaps://coap.me/foo/bar \rightarrow `225([[???,"bar"]])
```