Core: Cri ("Href")

November 7, 2022 (Monday), 13:00-15:00 UTC draft-ietf-core-href-11

<u>draft-ietf-core-href</u> defines **CRIs** and CRI references Concise equivalent of

- URIs and
- URI references (RFC 3986)

CRIs as a data model for URIS

URIs carry surprising amounts of complexity

Dark corners abound

Some features straddle lexicals, syntax, and semantics

CRIs are a standard structure for parsed URIs Attempt to be concise

Conciseness: Scheme IDs (#57)

Frequent scheme IDs (http:, coaps:, ...) are represented as a (negative) number All others are done as text

Original idea: define the complete set in the RFC, no extensions

Extensibility: Easily provided with registry

Creates uncertainty whether a number has been allocated

Only text version will actually be used

Conciseness: Scheme IDs (2)

Idea:

Allow registrations of scheme ID numbers only

- in initial pre-fill of registry
- when new URI scheme is registered (put a pointer in URI-Scheme registry?)

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We set up https://github.com/core-wg/href/wiki/uri-schemes-that-we-want-numbers-for to gather data for initial pre-fill
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Are we done gathering? Is this the right way to go?

Conciseness: Scheme IDs (3)

Radical idea:

Maybe add a column with the number to the URI-Scheme registry (RFC 7595) (Permanent registrations only)

RFC 8615 (well-known URIs) did add a column there is precedent

Would add attention to a new scheme registration

remaining issues

- #44 (percent encoding) → formulate text
- #43 can't percent-escape dot → integrate test
- #46 a: -- are there zero leading slashes or no slash?
 - → decide, i.e., make ["a", true] malformed
- #50 various nits from micrurus implementation
 - → write text
- (and two about test vectors)
 - → add selected test vectors to appendix

next steps

- have interim 2022-11-23 to decide remaining issues
- submit –12
- WGLC
- profit