

Compression Dictionary Transport

<https://datatracker.ietf.org/doc/draft-ietf-httpbis-compression-dictionary/>

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Overview

- Set up Dictionary (response header)
 - Use-As-Dictionary: `match="/blah"`, `match-dest=("document","iframe")`, `id="bob"`
- Trigger fetch of stand-alone dictionary
 - `<link rel=dictionary href="...">`
- Browser advertise available dictionary (request headers)
 - Available-Dictionary: `:hash:`
 - Dictionary-ID: `"bob"`
 - Accept-Encoding: `br-d`, `zstd-d`
- Use Dictionary (response headers)
 - Content-Dictionary: `:hash:`
 - Content-Encoding: `br-d`

Chrome 123

New Trial “CompressionDictionaryTransportV2”

IETF Draft 03:

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WHATWG integration

HTML (Dictionary Fetch):

<https://github.com/whatwg/html/issues/10162>

Fetch (CORS):

<https://github.com/whatwg/fetch/issues/1739>

Changes

- “Content-Dictionary: <hash>” Response header
- “Dictionary hashes now sf-binary (:base64:)
- “ttl” removed
- “match” ⇒ URLPattern
- Added “match-dest” list
- Added “id”, sent in “Dictionary-ID” request header

Open Issues

- [2637](#) - Split into two documents?
 - Split Use-As-Dictionary off?
- [2638](#) - Match should not allow full URLs
- [2640](#) - Reconcile ZSDCH

Questions

- Deployability friction moving to base64 hashes?
- Any benefit to “match” being a list?

Discuss...