

Digest Headers

(was: Resource Digests, was: RFC 3230)

HTTPWG Interim

draft-ietf-httpbis-digest-headers

[\[see IETF106 slides\]](#) [\[see the specifications\]](#)

Who is using Digest?

- [MICE content-coding](#) (draft-thomson-http-mice)
- Signature specs: http-signatures, [signed-exchanges](#) (draft-yasskin-http-origin-signed-responses)
- Banking APIs via http-signatures

Changes in 02

- Editorial sweep
 1. Emphasis on Representation Digest
 2. Digest of error responses
 3. Use http-core terminology

We need some help to move on!

Open Issues Needing Input

Low hanging fruit

- [#936/#937](#) - relationship with validators/cache
- [#850](#) - digest-algorithm “parameter” spec gap

Not straightforward

- [#970](#) - Is POST behavior extensible to all payload bodies?

#850 - digest-algorithm “parameter” spec gap

RFC3230 states the following and we import it verbatim:

For some algorithms, one or more parameters may be supplied.

```
digest-algorithm = token
```

The BNF for "parameter" is as is used in RFC 2616 [4]. All digest-algorithm values are case-insensitive.

Problems:

No example of parameter, anywhere.

Reference to BNF needs updating

[#936](#)/[#937](#) - Cache, Digest and cache-validators

RFC 3230 states the following:

The instance is specified by the Request-URI and **any cache-validator** contained in the message.

we translated it in to RFC 723x terms:

The resource is specified by the effective request URI and **any validator field** contained in the message.

But how **do** validators specify a resource? Is "specify" the correct term?

Open Issue [#970](#) - Is POST behavior extensible to all payload bodies?

Julian - *“I just don't think that it would be a good idea to vary the semantics based on the request method.”*

We can address this with some rewording but should we? E.g

Does a present or future method convey a partial representation, and if so the digest should always be computed on the complete representation.

Thanks!

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Digest HTTP Field summary

Request:

```
GET /items/123
```

Response:

```
HTTP/1.1 200 Ok
```

```
Content-Type: application/json
```

```
Content-Encoding: identity
```

```
Digest: sha-256=X48E9q0okqqrvdts8n0JRJN30WDUoyWxBf7kbu9DBPE=
```

```
{"hello": "world"}
```

digest-algorithm



encoded digest output

