Resumable Uploads

draft-ietf-httpbis-resumable-upload
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Resumable Uploads

- Example implementation: https://github.com/tus/draft-example
- Upload flow:
  - Upload Creation Procedure (POST etc)
  - Upload Appending Procedure (PATCH)
  - Offset Retrieving Procedure (HEAD)
  - Upload Cancellation Procedure (DELETE)
Major open issues

- Server-generated URL vs client-generated token (#2239)
- Retry-able upload creations using Idempotency-Key (#2293)
- Request identification using Prefer header (#2295)
- Conflicts with Expect header (#2243)
Server-generated URL vs client-generated token (#2239)

- Draft -00 uses client-generated token
  - Upload-Token header is used to identify the upload resource
- Proposal to use server-generated upload URLs (#2292)
  - Server responds with upload URL in 1xx and 2xx response
  - Achieves same benefits as client-generated tokens (retryability, single request uploads)
- Discussion: Switch to server-generated URLs?
Use of Idempotency-Key (#2293)

- Client can use Idempotency-Key to retry Upload Creation Procedure
  - Enables retryable, single request uploads for small files
  - Only if supported by server
- Discussion: Should Idempotency-Key be used for this?
  - If so, how to reference the Idempotency-Key draft?
Use of Prefer header (#2295)

- Use `Prefer: resumable-upload` header to identify the Upload Creation Procedure
- Discussion: Is this a good way of identification?
Conflicts with Expect header (#2243)

- Server can send informational response (104 Resumption Supported)
- Discussion: Is a conflict with `Expect: 100-continue` possible (order of 100 and 104 response)?
All open issues

- Server-generated URL vs client-generated token (#2239)
- Retry-able upload creations using Idempotency-Key (#2293)
- Request identification using Prefer header (#2295)
- Conflicts with Expect header (#2243)

- Non-cachable HEAD responses (#2294)
- Upload progress using informational responses (#2291)
- Prioritization of uploads (#2242)
- Integration into HTML forms (#2247)