

# Towards Resumable Uploads Everywhere

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# Today

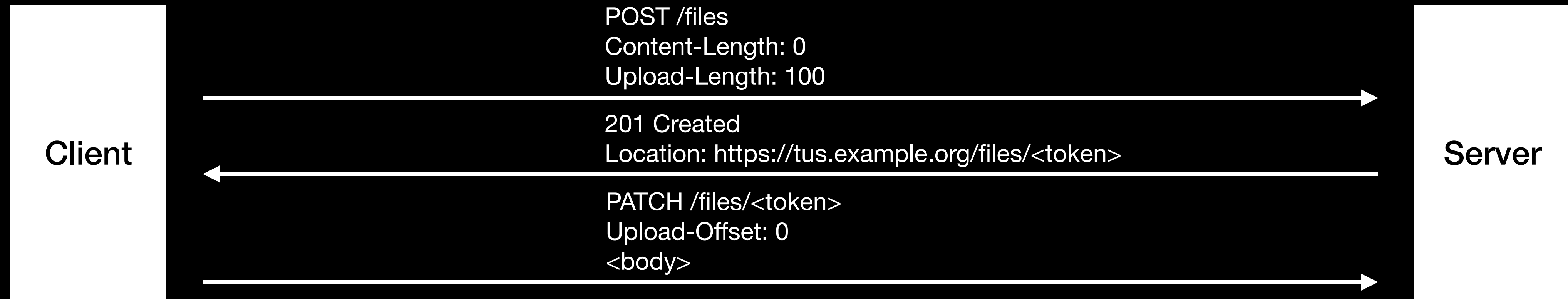
- HTTP RFC defines resumable download, but not resumable upload
- Multiple incompatible resumable upload protocols
  - Application-specific, built on top of HTTP

# **Tus 1.0.0**

**Deployed since 2013**

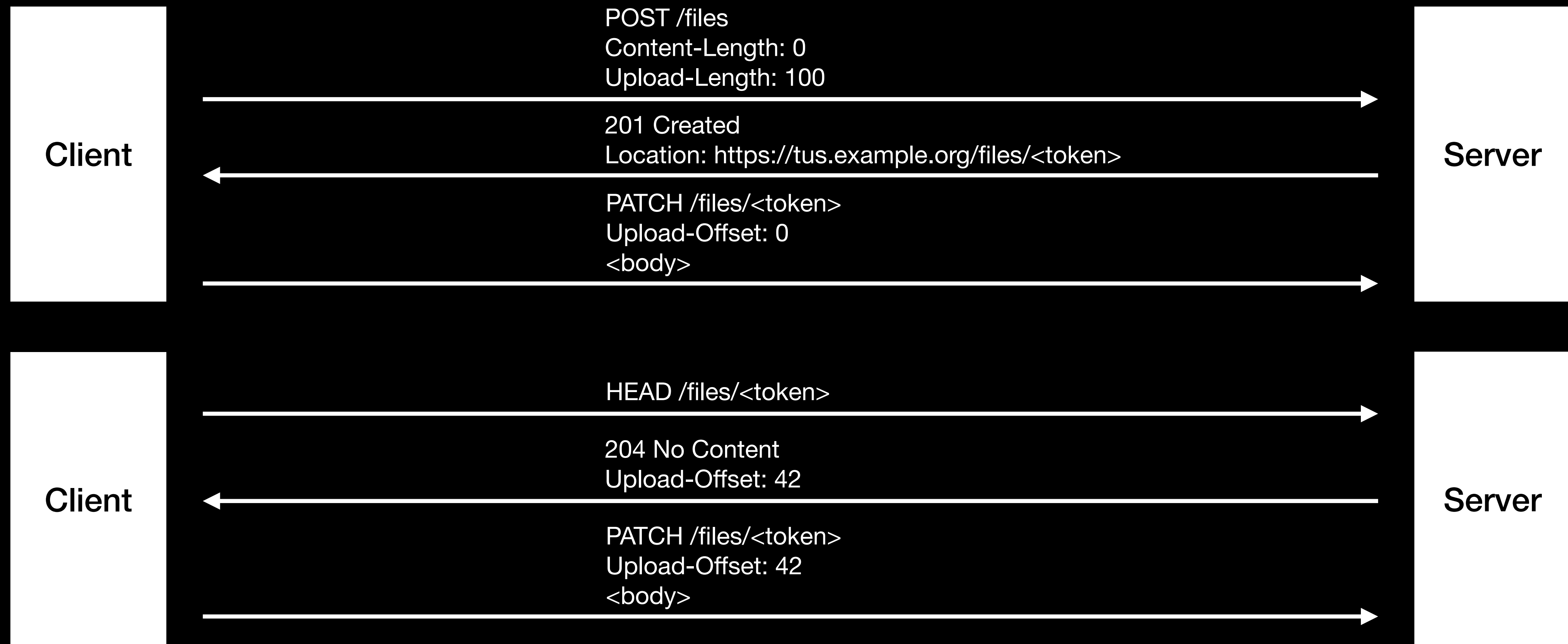
# Tus 1.0.0

Deployed since 2013

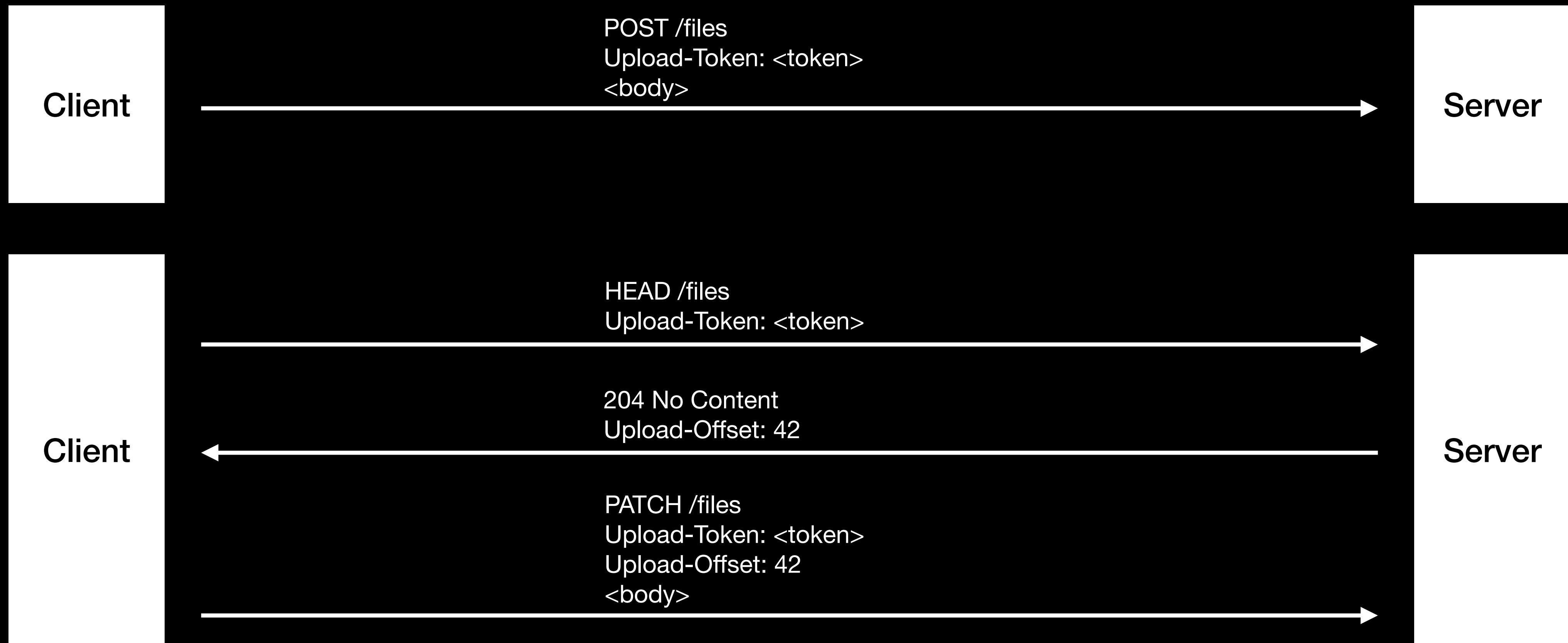


# Tus 1.0.0

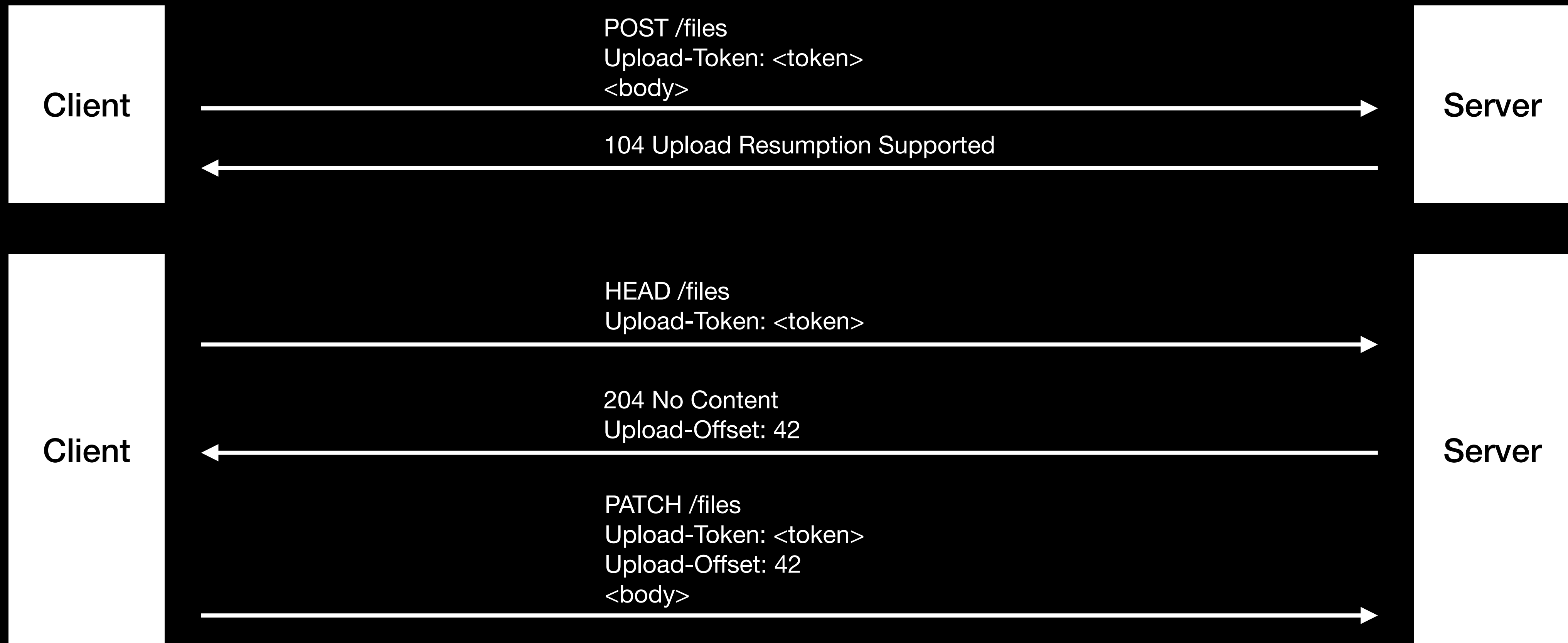
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# Proposed design



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- Minimum round-trips
  - By using client-generated tokens
- Feature detection mechanism
- Implementable both at application-level and at library-level
- Chunked upload support through `Upload-Incomplete: ?1`



# Discussion

- Feature detection mechanism
  - 1xx status code
  - SETTINGS frame
  - DNS record
  - OPTIONS request (extra round-trip)
  - /.well-known URI (extra round-trip)

# Discussion

- Upload metadata
  - Filename
    - Should we mention Content-Disposition?
  - Content-Type
    - Upload Creation Procedure
    - Upload Appending Procedure

**Adoption?**