

New protocol elements for HTTP Status Code 451



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Outline



- Brief introduction to HTTP 451 + rationale
- IETF99 hackathon + implementation report draft
- Recommended updates to HTTP 451 (draft-451-new-protocol-elements-01)
 - Distinction between blocked-by and blocking-authority
 - Geographical scope of block
- Help needed
- Links
- Team

Purpose of HTTP 451



- Making Internet censorship more transparent
- Reporting and tracking censorship easier
- Previously used status code 403 was not applicable

HTTP 451



- Should include explanation in response body
- Should include Link HTTP header field that must have “blocked-by” information

IETF99 Hackathon



- Tooling around collection of 451 status code reports in the wild
 - Browser plugins
 - Wordpress plugin
 - Report collector

Implementation Report Draft



- Current usage patterns of HTTP 451
- More information needed to be useful
- Varying implementations

Recommended updates

- blocked-by vs blocking-authority
- Geographical scope of block



Help needed!



- More definition needed for geographical scope of block
 - What is best way to do this? Existing syntax?
- Worth pursuing?
 - Extant discussion confined to HRPC
- IANA considerations

Links

- New protocol elements for HTTP 451 draft
 - <https://www.ietf.org/id/draft-451-new-protocol-elements-01.txt>
- Implementation Report draft
 - <https://www.ietf.org/archive/id/draft-451-imp-report-00.txt>
- GitHub repository for IETF99 hackathon
 - <https://github.com/451hackathon/>

Team

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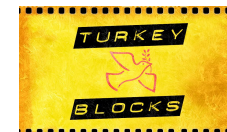
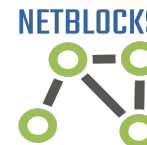
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Thanks!
