New protocol elements for HTTP Status Code 451

Presented by:
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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

- Implementation Report draft

- GitHub repository for IETF99 hackathon
  - [https://github.com/451hackathon/](https://github.com/451hackathon/)
Team

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Thanks!