Cookies: HTTP State Management Mechanism draft-ietf-httpbis-rfc6265bis-07

Feb 9, 2021

Draft issues status

29 open issues:

- Defer/close (not in scope, lacks consensus, needs work)
  - #1372, #1042, #1013, #946, #762, #718, #525, #494, #441
- Investigate interop, define in spec (likely valid issues)
  - #1399, #1385, #1340, #1332, #1289, #1288, #1233, #1210, #1163, #1136, #1073, #769
- Editorial
  - #1302, #1301
- In progress (addressed by open/in-progress PR)
  - #1337 (PR coming), #889 / #593 (addressed by #1348), #628 (addressed by #1384)
- Tentatively resolved
  - #933, #773

Open draft issues by topic

"Investigate interop, define in spec (likely valid issues)" bucket:

- `Cookie` and `Set-Cookie` headers (syntax, parsing)
  - #1399, #1340, #1210, #1136, #1073
- Cookie access via non-HTTP APIs
  - #1233; #1288 / #1163 / #769 (SameSite attribute)
- `Domain` attribute semantics
  - #1385, #1332, #1289

Recent changes

- Parsing of multiple `SameSite` attributes
  - Firefox behavior aligned with Chrome and Safari (#933)
- Same-site vs cross-site requests with redirects
  - Considering redirect chain in definition of "same-site" (#1348)
- Same-site vs cross-site requests with reloads
  - Defined different behavior for browser-UI-initiated reloads (#1384)
- `SameSite` attribute: Request method on redirects (e.g. POST-redirect-GET)
  - Clarified that method of the current redirect hop is used (#1331)

Cookie Incrementalism

- Strong support for Call for Adoption for sections 3.1, 3.2, 3.3 of "Cookie Incrementalism" I-D.
- Merged 3 sections of draft-west-cookie-incrementalism-01 into 6265bis:
  - Treat cookies as "SameSite=Lax" by default (#1325)
  - Require "Secure" for "SameSite=None" (#1323)
  - Introduce "Schemeful Same-Site" cookies (#1324)

Web Platform Test status

- Rewrite of abarth's `http-state` test suite complete.
    - The path and domain tests in particular had never worked with WPT infrastructure.
    - [New tests](#) in `wpt/cookies/attributes`:

Tested attribute	# tests	Blink	Gecko	WebKit
Domain	48	48	47	39
Expires	6	6	6	6
(invalid/parsing)	27	27	25	21
Max-Age	11	11	11	10
Path	40	40	38	40
Secure	19	19	19	19