IETF 89 - HTTP/1.1 Final Changes Overview

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History (1/7)

- -22: published February 2013 (before IETF 86)
- -23: published July 2013 (before IETF 87)
- -24: published September 2013 (between IETF 87 and 88)
- -25: published November 2013 (after IETF 88, addressing Last Call Comments)
- -26: published February 2014 (addressing IESG Comments), approved and in RFC Editor Queue
History (2/7)

Work started with a pre-BOF in Prague almost seven years ago:
History (3/7)

Hard editorial work over the years:
History (4/7)

(in late 2008, not realizing how long it was going to take)
History (5/7)

According to **Ohloh**:

In a Nutshell, IETF HTTPbis Working Group...

-- has had **2,623 commits** made by **8 contributors** representing **1,898,277 lines of code**

-- is **mostly written in Tcl** with a low number of source code comments

-- has a **well established, mature codebase** maintained by a **average size development team** with **decreasing Y-O-Y commits**

-- took an estimated **552 years of effort** (COCOMO model) starting with its first commit in December, 2007 ending with its most recent commit **19 days ago**

(don't panic: "lines of codes" includes draft snapshots, and no, it's not written in Tcl)
History (6/7)

2616 subversion commits getting us to:

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r2616 | julian.reschke@gmx.de | 2014-02-06 08:58:19 +0100 (Thu, 06 Feb 2014) | 1 line
prepare publication of -26
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And yes, that was a coincidence.
History (7/7)

IANA registries have been created and/or updated.

Drafts are now in RFC Editor Queue as part of an 11-document cluster, with publication expected in around six to eight weeks from now.

(The specs that are waiting for us are: draft-snell-http-prefer-18, draft-reschke-http-status-308-07, and draft-ietf-appsawg-http-forwarded-10)
Changes that might be interesting

- idempotency: clarify "effect" ([Ticket 501](#))
- requirement on implementing methods according to their semantics ([Ticket 545](#))
- considerations for new headers: privacy ([Ticket 546](#))
- clarify PUT on content negotiated resource ([Ticket 547](#))
- payload for 300 responses ([Ticket 548](#))
- augment security considerations with pointers to current research ([Ticket 549](#))
- handling mismatches between socket connection and host header field ([Ticket 550](#))
- intermediaries handling trailers ([Ticket 551](#))
Changes - Editorial/Process Oriented

- RFC 1305 ref needs to be updated to 5905 (Ticket 499)
- APPSDIR review of draft-ietf-httpbis-p1-messaging-24 (Ticket 502)
- APPSDIR review of draft-ietf-httpbis-p2-semantics-24 (Ticket 503)
- APPSDIR review of draft-ietf-httpbis-p5-range-24 (Ticket 506)
- integer value parsing (Ticket 507)
- broken sentence in description of 206 (Ticket 508)
- APPSDIR review of draft-ietf-httpbis-p4-conditional-24 (Ticket 518)
- Request that the WG reconsider section 3.4: Content Negotiation (Ticket 519)
- dangling reference to cacheable status codes (Ticket 500)
- normative text in appendices (Ticket 505)
- use of RFC2119 keywords in registration requirements/instructions (Ticket 509)
• SECDIR review of draft-ietf-httpbis-p7-auth-24 ([Ticket 510])
• registration tables should be inside IANA considerations ([Ticket 514])
• use of RFC2119 in introduction ([Ticket 515])
• note about WWW-A parsing potentially misleading ([Ticket 516])
• move IANA registrations to correct draft ([Ticket 517])
• Gen-Art review of draft-ietf-httpbis-p2-semantics-24 with security considerations ([Ticket 520])
• Gen-Art review of draft-ietf-httpbis-p5-range-24 ([Ticket 521])
• Gen-art review of draft-ietf-httpbis-p7-auth-25 ([Ticket 522])
• Gen-ART Last Call review draft-ietf-httpbis-p1-messaging-25 ([Ticket 523])
• Gen-ART Last Call review draft-ietf-httpbis-p6-cache-25 ([Ticket 524])
• Gen-ART Last Call review draft-ietf-httpbis-p4-conditional-25 ([Ticket 525])
• check media type registration templates (Ticket 526)
• use of CHAR for other-range-set (Ticket 527)
• Redundant rule quoted-str-nf (Ticket 528)
• IESG ballot on draft-ietf-httpbis-method-registrations-14 (Ticket 529)
• IESG ballot on draft-ietf-httpbis-authscheme-registrations-09 (Ticket 530)
• IESG ballot on draft-ietf-httpbis-p1-messaging-25 (Ticket 531)
• IESG ballot on draft-ietf-httpbis-p2-semantics-25 (Ticket 532)
• IESG ballot on draft-ietf-httpbis-p6-cache-25 (Ticket 535)
• OPS-dir review of p6-cache (Ticket 543)
• allow privacy proxies to be conformant (Ticket 552)
• IESG ballot on draft-ietf-httpbis-p4-conditional-25 (Ticket 533)
• IESG ballot on draft-ietf-httpbis-p5-range-25 (Ticket 534)
• IESG ballot on draft-ietf-httpbis-p7-auth-25 (Ticket 536)
• OWS vs optional (Ticket 537)
• add "stateless" to Abstract (Ticket 538)
• mention TLS vs plain text passwords or dict attacks? (Ticket 539)
• clarify ABNF layering (Ticket 540)
• use of "word" ABNF production (Ticket 541)
• improve introduction of list rule (Ticket 542)
• moving 2616/2068/2145 to historic (Ticket 544)
When draft-reschke-http-status-308-07 was approved two years ago, the status code description was consistent with what HTTPbis said back then. In the approved HTTPbis P2 spec, the descriptions have been rephrased, and we should align draft-reschke-http-status-308 in AUTH48 to restore consistency.

**Next Steps**

- finish 2.0
- over in HTTPauth, finish "Basic" and "Digest", so that we finally can retire RFC 2617, too.