

Problem Details for HTTP APIs (RFC 7807bis)

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[IETF 110](#)

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Outline

- History of RFC 7807
- Motivation behind bis
- Issues
- New I-D?

History of RFC 7807

Problem Details for HTTP APIs

RFC 7807

Status

[IESG evaluation record](#)

[IESG writeups](#)

[Email expansions](#)

[History](#)

Versions

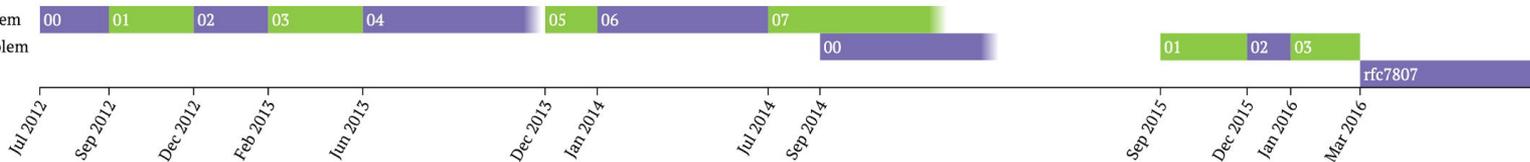
[00](#)

[01](#)

[02](#)

[03](#)

draft-nottingham-http-problem
draft-ietf-appsawg-http-problem
rfc7807



- First I-D Jul 2012, 12 drafts
- RFC since March 2016
- Authors: Mark Nottingham, Erik Wilde

RFC 7807bis: Motivation

I-D: <https://github.com/ietf-wg-httpapi/rfc7807bis/blob/main/draft-ietf-httpapi-rfc7807bis.md>

Authors: Mark Nottingham, Erik Wilde, Sanjay Dalal

- Multiple problem instances
 - The most common use case with 400 class of errors in HTTP APIs. Encountered by most new consumers of an HTTP API
 - Also applicable in cases where [batch](#) (of something) is submitted to a service using HTTP API
 - However, RFC 7807 recommends an “extension” for the use case. This limits the adoption and creates a proliferation of proprietary schemas for error responses in HTTP APIs.
 - Hurts developer experience and increases support cost.
- The type of the member `type` needs more clarification (see issues)

Issues needing resolution

- [#15](#), [14](#), [13](#), [11](#) 'type' related issues - [Tim Perry](#)
- [#12](#) Problem Details Object for Warning - [Sanjay Dalal](#)
- [#10](#) JSON-LD context (in appendix) [Asbjørn Ulsberg](#)
- [#8](#) JSON schema for Problem Details Object (in appendix) - [Sanjay Dalal](#)
- [#6](#) Multiple problems - [Sanjay Dalal](#)

Issues: <https://github.com/ietf-wg-httpapi/rfc7807bis/issues>

New I-D for repository?

- #7 Repository of common problem types - [Graham Cox](#)
 - Invalid Request
 - Invalid value { Email address, Phone number, Country code, Currency code, Enumerated values...} (with reference to a standard)
 - Optimistic lock failure (e.g. the If-Match header on a PUT request has the wrong value)

Mark Nottingham's suggestions

1. Create an IANA registry of problem types, much as for link relations.
2. Create a publicly-coordinated informal repository (eg, in a wiki).

Thanks!

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