

JMAP + Gmail

Teaching an old dog new tricks

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Internet Engineering Task Force (IETF)

Request for Comments: 8621

Updates: [5788](#)

Category: Standards Track

ISSN: 2070-1721

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August 2019

The JSON Meta Application Protocol (JMAP) for Mail

Abstract

This document specifies a data model for synchronising email data with a server using the JSON Meta Application Protocol (JMAP). Clients can use this to efficiently search, access, organise, and send messages, and to get push notifications for fast resynchronisation when new messages are delivered or a change is made in another client.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in [Section 2 of RFC 7841](#).

Gmail

Compose

Inbox 46,191

Snoozed

Important

Chats

Sent

Drafts 160

All Mail

Categories

Social 17,393

Updates 24,600

Forums 36,719

Promotions 46,268

agi 3,448

amailinglist 348

CFAR 524

cypherpunks 728

Joseph

51 Invites Eunice White-Gluz, Gwynette Har...

Celebrate with us - \$5 birthday sale on NOW!

Audible.com.au <donotreply@audible.com.au> Unsubscri... Nov 13, 2019, 9:21 AM (4 days ago)

to me

Hi Joseph Gentle
Credits available: 6

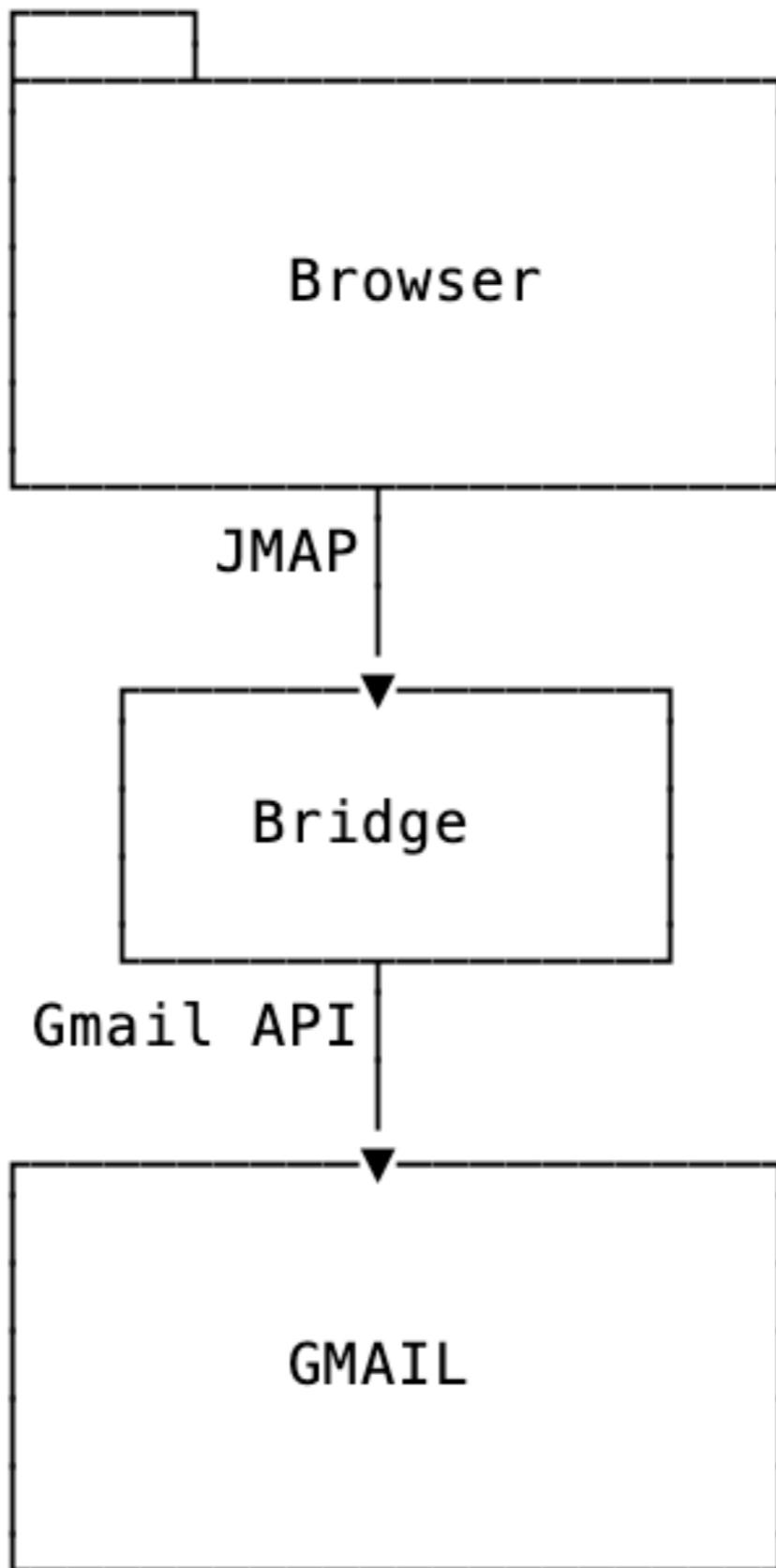
My Library Wish List Best Sellers

5 DAYS ONLY!

5TH BIRTHDAY SALE

\$5 EACH

NEW TITLES EACH DAY



Inbox (102133) - ! Last chance - o X +

localhost:8080/16e71681c6c3be41

JMAP / Mail | Inbox 2272 | Archive Delete Mark as Read Mark as Unread Undo Agenda

Inbox 102133

Personal 3220

Social 17393

Promotions 46268

Updates 24601

Forums 36719

Drafts

Sent

Spam 2723

Trash

agi 3448

amailinglist 348

CFAR 524

Chat

cse 1941

cypherpunks 728

derby 445

for others 2054

chat. Only \$5.99 each when you order 2 ...
Donate to St. Jude with your order! Can't see this email? Open in Browser Domino's® Treat

● Honda of Superstition Springs 16/11/2019
Clearance Pricing on New and Used Hondas ☆
Honda Clearance Pricing Now! Accord Sedan LX Lease for \$195/mo. with \$2890 down All-In + Tax* for 36

● Amazon.com 16/11/2019
Into the Labyrinth: Mage... ☆
Looking for something in Coming of Age Literature & Fiction? Amazon.com Your Amazon.com

● Tony Du 16/11/2019
BT Panorama Superannuation PDS ☆
Hi Joe, I look forward to meeting you on Monday. Thank you for providing us an opportunity to

Audible.com.au 16/11/2019
! Last chance - our \$5 birthday sale ends ... ☆
City of Girls, The Binding, murderino memoir and more - today only! audible - an amazon company Hi

● Netflix 16/11/2019
Complete your password reset request ☆
Netflix Reset your password Hi Joseph, Let's reset your password so you can get back to watching.

● James Bowery, rouncer81@ho... 08/11/2019
[agi] Leggifying "Friendly Intelligence" an... ☆
See my LinkedIn post "A Leggian Approach to "Friendly AI"" for background. My 58

● Free Caesars Slots 16/11/2019

! Last chance - our \$5 birthday sale ends midnight!

Audible.com.au to josephg Promotions, Inbox 16/11/2019 ☆

audible an amazon company

Hi Joseph Gentle Credits available: 6

My Library Wish List Best Sellers

5 DAYS ONLY!
5TH BIRTHDAY SALE
\$5 EACH!
NEW TITLES EACH DAY!

overies@gmail.c... 16/11/2019
 free cash for the support ... ★
 ct or idea? If you want you can

No Conversation Selected

Debugger Network { } Style Editor Performance Memory Storage Accessibility

All HTML CSS JS XHR Fonts Images Media WS Other Persist Logs Disable cache No throttling

	Cause	Type	Transferred	Size	0 ms	Headers	Cookies	Params	Response	Timings	Stack Trace
aw.js	script	js	1.04 MB	1....	43 ms	0: [...]	0: Email/query	0: [...]	0: [...]	0: [...]	0: [...]
s	script	js	cached	0 B	5 ms	1: {...}	accountId: josephg@gmail.com	1: {...}	1: [...]	1: [...]	1: [...]
s	script	js	296.85 KB	2...	39 ms	calculateTotal: true	collapseThreads: true	filter: {...}	filter: [...]	filter: [...]	filter: [...]
ceView.js	script	js	cached	0 B	9 ms	inMailbox: INBOX	limit: 30	sort: [...]	sort: [...]	sort: [...]	sort: [...]
View.js	script	js	cached	0 B	9 ms	position: 0	0: {...}	0: [...]	0: [...]	0: [...]	0: [...]
ageView.js	script	js	cached	0 B	12 ms	sort: [...]	isAscending: false	1: [...]	1: [...]	1: [...]	1: [...]
w.js	script	js	cached	0 B	17 ms	property: receivedAt	2: 0	2: [...]	2: [...]	2: [...]	2: [...]
ew.js	script	js	cached	0 B	26 ms	2: 0	0: Email/get	3: [...]	3: [...]	3: [...]	3: [...]
s	script	js	cached	0 B	15 ms	3: [...]	1: {...}	4: [...]	4: [...]	4: [...]	4: [...]
script	js	11.79 KB	1...	36 ms	4: [...]	#ids: {...}	name: Email/query	5: [...]	5: [...]	5: [...]	5: [...]
script	js	cached	0 B	34 ms	5: [...]	path: /ids	path: /ids	6: [...]	6: [...]	6: [...]	6: [...]
xhr	plain	274 B	0 B	4 ms	6: [...]	resultOf: 0	resultOf: 0	7: [...]	7: [...]	7: [...]	7: [...]
xhr	json	cached	1....	5 ms	7: [...]	accountId: josephg@gmail.com	accountId: josephg@gmail.com	8: [...]	8: [...]	8: [...]	8: [...]
xhr	plain	122 B	0 B	4 ms	8: [...]	properties: [...]	properties: [...]	9: [...]	9: [...]	9: [...]	9: [...]
xhr	plain	288 B	0 B	3 ms	9: [...]	9: [...]	9: [...]	10: [...]	10: [...]	10: [...]	10: [...]
xhr	json	14.01 KB	1...	745 ms	10: [...]	10: [...]	10: [...]	11: [...]	11: [...]	11: [...]	11: [...]

ferred | Finish: 13.70 s | DOMContentLoaded: 479 ms | load: 828 ms

Limitations

- Gmail's API is awkward and slow
- Aggressive rate limiting

A screenshot of a web browser displaying two GitHub repository pages side-by-side.

The top repository is **jmapio/jmap-demo-webmail**. Its page includes:

- Watch (0), 10 forks, 58 stars, 12 forks
- Code, Issues (3), Pull requests (0), Actions, Projects (0), Wiki, Security, Insights
- Description: Demo JMAP Webmail Client
- 28 commits
- Branch: master
- File list: .gitignore, LICENSE, README.md, fixtures.js, index.html

The bottom repository is **josephg/gmail-jmap**. Its page includes:

- Unwatch (2), 2 stars
- Code, Issues (0), Pull requests (0), Actions, Projects (0), Wiki, Security, Insights, Settings
- Description: Simple JMAP wrapper for gmail
- Manage topics
- 5 commits, 1 branch, 0 packages, 0 releases
- Branch: master
- New pull request, Create new file, Upload files, Find file
- Latest commit d0df311 by josephg: Added readme
- File list: .gitignore, README.md, package.json
- Commit details: Initial import (for .gitignore, package.json), Added readme (for README.md)