JMAP
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Agenda

- Overview of changes since IETF99: 15 min
- JMAP Core remaining issues: 20 min
- JMAP Mail remaining issues: 40 min
- Other business / GitHub tickets: 10 min
Patch updates

- More efficient network usage

- Clients that don’t want to support patch can just send full object; server processes the same

- Allows add/remove keyword/mailbox without blalling any other recent changes if server state != client state
Patch updates

[
  ["setMessages",
   {
     "create": {},
     "update": {
       "bf5cb26879d72a8bcef36f0e2efe979609afbef1": {
         "keywords/$Flagged": true
       }
     },
     "destroy": []
   },
   "0"
  ]
]
Back references for method arguments

```javascript
[
  [
    "getMessageList",
    {
      "filter": {
        "inMailbox": "46738b6c-c83d-11e7-a64b-0026b9fac3ae"
      },
      "sort": [
        "date desc"
      ],
      "collapseThreads": true,
      "position": 0,
      "limit": 30
    },
    "0"
  ],
  [
    "getMessages",
    {
      "#ids": {
        "resultOf": "0",
        "path": "/ids"
      },
      "properties": [
        "threadId"
      ],
      "1"
    }
  ],
  ...
]```
[...
  "getThreads",
  {
    "#ids": {
      "resultOf": "1",
      "path": "/list/*/threadId"
    },
  },
  "2"
],
[...
  "getMessages",
  {
    "#ids": {
      "resultOf": "2",
      "path": "/list/*/messageIds"
    },
    "properties": [
      "threadId",
      "mailboxIds",
      "keywords",
      "hasAttachment",
      "from",
      "to",
      "subject",
      "date",
      "size",
      "preview"
    ]
  },
  "3"
]...
Push Support

- Add web-encryption support
- Ensure RFC8030 conformity
- Event-source: long-polling option, client-determined ping times
Authentication

- New authentication out of scope
- It’s just HTTP, so HTTP auth (probably Basic/Bearer)
JMAP Core
Remaining Issues
Top-level API object and versioning/extensions

- Wrap method calls array in a top-level object
- Add “using” property to object: opt-in to specifications (like Sieve)
- Server advertises supported specs in capabilities object
- Specs define their capability name (preferably a URL to the spec….)
Method naming

- getFoons
- getFooUpdates
- getFooList
- getFooListUpdates
- setFoons
Method naming

- getFooUpdates
  - => getFoosUpdates?
  - => getUpdatesToFoos?

- getFooList
  - => getFoosList?
  - => getListOfFoos?

- getFooListUpdates
  - => getUpdatesToListOfFoos?
  - => getFoosListUpdates?
JMAP Mail
Remaining Issues
Renaming "Message" object type to "Email"

- Yes, more naming bike shedding

- The issue is whether people are likely to get confused by the “id” property on the Message object being a JMAP server id and NOT the RFC5322 Message-ID

- It’s called out explicitly in the spec, but still...
Message Format

- JSON representation of RFC5322
- What does the client want?
- What is an attachment?
- Single or multiple parts to body?
- Flat or tree?
- Partial body fetch for efficiency; how?
ACLs and separating isUnread from keywords

- IMAP has a different ACL for $Seen vs other keywords
- $Seen is already special because Mailboxes#unreadThreads/unreadMessages
- Maybe map IMAP $Seen to separate isUnread property?
Destroying mailboxes: what happens to messages

- Mostly consensus reached on the list:

- `setMailboxes#onLastReferenceMoveTo: `String|null`

- Concerns raised that omitting is equivalent to null => deletes messages.

- Omitting should raise error instead?

- Is this inconsistent though?
Any other business