JMAP

IETF 100 / 16 Nov 2017

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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 blatting any other recent changes if server state != client state

Patch updates

Back references for method arguments

```
"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": {
      "result0f": "1",
      "path": "/list/*/threadId"
 },
"2"
],
 "getMessages",
    "#ids": {
      "result0f": "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

- getFoos
- getFooUpdates
- getFooList
- getFooListUpdates
- setFoos

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