The IMAP WEBPUSH Extension – Follow Up

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https://datatracker.ietf.org/doc/draft-gougeon-imap-webpush/

Push notification payload: JSON

- IMAP connection and push notifications are **different channels**: no need to use the same parser
- JSON parsers are **common and trivial**
- Don't need access to IMAP libraries’ parsers
- As suggested by Ben and others

Add NOTIFY-like filter

- As mentioned by Graham and Ben during IETF122, filters are important to **limit amount of non-necessary push messages**

- Borrow `event-groups` filter from NOTIFY, as suggested by Mechiel

```
      C: a2 WEBPUSH a8282bf9-6102-4e1b-bb61-d26d0e532e65 \
+         my-mobile-client \
          https://push.example.net/push/random1 \
          BCVxsr7N_eNgVRqvHtD0zTZsEc6-VV-JvLexhqUzORcxaOzi6-AYWXvTBHm4bj\
          yPjs7Vd8pZGH6SRpkNtoIAiw4 \
-         BTBZMqHH6r4Tts7J_aSIgg
+         BTBZMqHH6r4Tts7J_aSIgg \
+         (personal (Messagenew messageExpunge))
```

Remove endpoint from responses

- Replaced by a subscription name

- Allows to identify the subscription **without leaking the push endpoint** to other clients

```
        C: a4 LWEBPUSH *
        S: * WEBPUSH a8282bf9-6102-4e1b-bb61-d26d0e532e65 \
-           https://push.example.net/push/JzLQ3raZJfFBR0aqvOMsLrt54w4rJUsV NIL
+           my-mobile-client NIL
        S: a4 OK LWEBPUSH completed
```

Add pushId

- May be useful to identify if a push notification is received out of order, or a push notification is missing.

```
{
    "pushId": 1001,
    "events": [
        {
            "eventType": "MessageNew",
            "mailbox": "My Mailbox",
            "uid": 1001,
```

Next steps

- Consensus about the need for web push for IMAP?
- Adoption?
- Review the draft, probably some typos
- Align with JMAP payloads ?

Current state:

https://codeberg.org/s1m/WEBPUSH_IMAP_EXTENSION/pulls/1