

# IMAP4 revision 2

draft-ietf-extra-imap4rev2-14.txt

Alexey Melnikov

Barry Leiba

# Goals - general

- Make life easier for client developers who would be able to only implement IMAP4rev2 in the future
  - But try not to boil the ocean in the process
- Easy to implement for IMAP4rev1 server implementors, as they do most of the new things included in IMAP4rev2 already
- IMAP4rev2 can co-exist with IMAP4rev1 on the same port

# Changes done in WG -14 since -07

- Folded in STATUS-in-LIST, SEARCHRES
- Added STATUS DELETED
- Described \$Junk/\$NonJunk/\$Phishing
- Require UID FETCH item in unsolicited responses
- Allow IDLE to return responses other than FETCH/EXPUNGE/EXISTS
- Clarified what is included in the ENABLED response
- Clarified what RFC 2231 (parameter continuation) support means
- Allow IMAP extensions to be documented in Informational or Experimental RFCs [in addition to Standards Track]

# Changes done in WG -14 since -07 (continued)

- Updated resp-text non terminal ABNF to allow for empty text
- Clarified server choices for DELETE with children mailboxes
- Clarified that RENAME of INBOX might be disallowed
- Clarified that SUBSCRIBE should return OK if the mailbox is already subscribed. Clarified that UNSUBSCRIBE should return OK if the mailbox is not subscribed.
- Addressed most of comments from Timo and Bron

# Open Issues

- Use of CLOSED response code to force client to unselect a mailbox?
- New response code for “the canonical name for the created mailbox is ...”

# Future directions - add/ clarify

- Clarified that LIST return option and LIST selection options still need to be registered with IANA
- Add a new section on other “recommended” IMAP extensions?
- Clarify the most problematic areas, such as
  - BODYSTRUCTURE (parsed MIME structure) is still quite buggy in some implementations
- Restrict Extended LIST to a single list pattern (more restrictive than LIST-EXTENDED, but easier to implement)
- Clarify when BINARY FETCH can be used: only leaf body parts? ***What about message/global?***
- **Allow SEARCH to do more intelligent matching (not just substring), e.g. word based**

# Next steps

- WGLC is done, but a few comments from Timo still need to be addressed
- AD review from Murray Kucherawy

Slides on past  
changes



# Changes done in WG -04 since -02

- Added MOVE
- Require all unsolicited updates to include UID
- Got rid of LSUB (use LIST SUBSCRIBED), SEARCH responses (ESEARCH responses can be used instead), \Recent flag and associated responses, UNSEEN response code on SELECT/EXAMINE.
- Clarified RFC 2231 compliance when returning Content-Type and Content-Disposition parameters

# Changes done before WG -00 (1 of 2)

- Included errata for RFC 3501
- Updated TLS recommendations (as per UTA WG)
- Added RFC 5530 (IMAP Response Codes), pieces of ABNF for extending IMAP from RFC 4466.

# Changes done before WG -00 (2 of 2)

- Merged in "popular" IMAP extensions which
  - Make the protocol more symmetrical (UNSELECT, UIDPLUS, CLOSED response code)
  - Avoid the need for clients to guess server configuration (NAMESPACE, SPECIAL-USE, bits of LIST-EXTENDED)
  - Make responses more compact/less chatty (ESEARCH)
  - Use ENABLE
  - Other optimizations (SASL-IR, LITERAL+)
  - IDLE
- See Appendix B in the draft for the full list

# Changes done in WG -00

- Added \$MDNSent and \$Forwarded IMAP keywords to the base specification (as SHOULD support. **Upgrade to MUST?**)
- Extended tagged-ext-simple ABNF non terminal to allow number64
- Added official registrations for IMAP/IMAPS ports with IANA.