

# IMAP4 revision 2

draft-ietf-extra-imap4rev2-02.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 -02 since -00

- Added LITERAL-
- Support for EAI messages and UTF-8 mailbox names (thank you Chris Newman)
- STATUS SIZE (total storage size of a mailbox)

# Future directions - add/ clarify (1 of 2)

- Clarify the most problematic areas, such as
  - BODYSTRUCTURE (parsed MIME structure) is still quite buggy in some implementations
- Require all unsolicited updates to include UID?
- Add LIST-EXTENDED without multiple list patterns
- Combine frequently used operations (STATUS + LIST)

# Future directions - cleanup

## (2 of 2)

- Get rid of LSUB (use LIST SUBSCRIBED)
- Get rid of SEARCH responses - ESEARCH responses can be used instead
- Get rid of \Recent flag and associated responses
  - Multiclient access to the same mailbox made this obsolete
- Get rid of reporting of the first unseen message on mailbox open?
  - Who cares, if you have 60000 messages in your mailbox?
  - Extra work for servers, hardly ever needed by clients
- **Anything else?**

# Open Issues

- **MOVE?**
- SEARCHRES? (Search for messages, use “\$” to reference them in subsequent FETCH, STORE, COPY, SEARCH)
- Add STATUS DELETED (number of messages with \Deleted flag)?
- OBJECTID??
- Add BINARY? Only FETCH related items and not APPEND?

Slides on past  
changes

# 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.