IMAP4 revision 2

draft-ietf-extra-imap4rev2-02.txt
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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 (1of 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.