IMAP4 revision 2

draft-ietf-extra-imap4rev2-15.txt
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Goals - general

- Make life easier for <u>client</u> 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 -15 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 -15 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.

- Restricted Extended LIST to a single list pattern (more restrictive than LIST-EXTENDED, but easier to implement)

- 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 ..."

When can CLOSED response code be used?

"

The CLOSED response code has no parameters. A server return the CLOSED
response code when the currently selected mailbox is closed
implicitly using the SELECT/EXAMINE command on another mailbox. The
CLOSED response code serves as a boundary between responses for the
previously opened mailbox (which was closed) and the newly selected
mailbox; all responses before the CLOSED response code relate to the
mailbox that was closed, and all subsequent responses relate to the
newly opened mailbox.

There is no need to return the CLOSED response code on completion of
the CLOSE or the UNSELECT command (or similar), whose
purpose is to close the currently selected mailbox without opening a
new one.

**The server MAY also return an unsolicited CLOSED response code when
it wants to force the client to return to authenticated state.**
For example, the server can do that when the mailbox requires repairs
or is deleted in another session.
"

How to return canonical mailbox name on CREATE?

- New response code:

  - "CREATED" SP tag SP mailbox-quoted [SP "MAILBOXID" SP aquoted

  - aquoted - atom or quoted string

  - mailbox-quoted - same as "mailbox", but without "literal" form, as CR or LF are not allowed in response codes

  - Example: *** OK [CREATED A123 "Normalized Mailbox Name" MAILBOXID "123456"]**

- **Issue 1:** non ASCII is not currently allowed in response text or response codes

- **Issue 2**: "]" is also not allowed in response codes!

  - **Solution 1**: Tough, just explain the restriction and continue using the above syntax in a response code

  - **Solution 2**: Switch to using a new untagged response?

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

- 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